Ontario

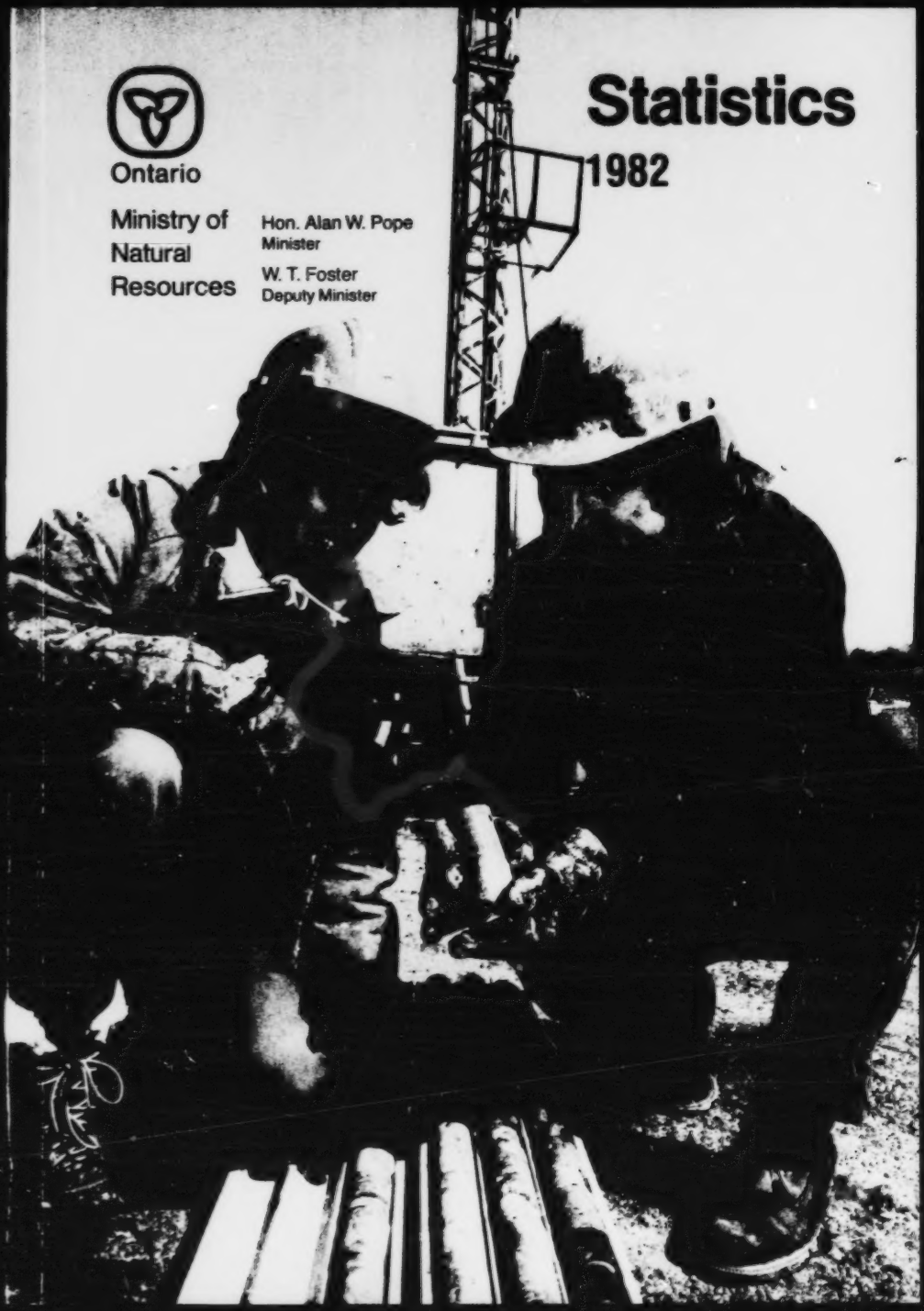
Ministry of Natural Resources

Hon. Alan W. Pope
Minister

W. T. Foster
Deputy Minister

Statistics

1982



Statistics
1982

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1982

$2.00

Ontario
Ministry of Natural Resources
Hon. Alan W. Pope
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Deputy Minister

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Cover Photo: MNR geologists examine oil shale core samples taken from more than 200 m below earth's surface at Nobleton, Ont.

MINISTRY OF NATURAL RESOURCES*

Hon. Alan W. Pope	Minister of Natural Resources.
W. T. Foster	Deputy Minister.
G. A. McCormack	Assistant Deputy Minister, Northern Ontario.** Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Burgar (acting)	Assistant Deputy Minister, Southern Ontario.*** Algonquin Region Eastern Region Central Region Southwestern Region
M. Mogford	Assistant Deputy Minister, Administration.

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C.	Mining and Lands Commissioner.
R. F. Harrison	General Manager, St. Clair Parkway Commission.
I. D. Bird	General Manager, Algonquin Forest Authority.

* Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3.
** Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6.
*** Maple, Ontario L0J 1E0.

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704.

Deputy Minister	W.T. Foster	W-6320 . . . 2704
Administrative Assistant	Mrs. I. Mack	W-6320 . . . 5873
Science Adviser and Reserch Co-ordinator	Dr. M. F. Walmsley	W-6350 . . . 5720

POLICY CO-ORDINATION SECRETARIAT

Director	Mrs. M. B. Fordyce	W-6547 . . . 8422
Secretary	Mrs. M. Forbes	W-6540 . . . 8422
Outdoor Recreation Policy Officer	D. W. Simkin	W-6546 . . . 6712
Resource Products Policy Officer	E. E. Multamaki	W-6549 . . . 6712
Lands and Waters Policy Officer	L. A. Douglas	W-6545 . . . 6371
Special Products Policy Officer	J. M. Kearns	W-6550 . . . 6371
Recreation Analyst	J. D. Ross	W-6542 . . . 6712

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION		
Dryden	11 961	
Fort Frances	10 847	
Ignace	11 463	
Kenora	14 188	
Red Lake	64 105	
Sioux Lookout	112 097	224 661
Pt. Rainy Lake	1 222	
Pt. Lake of the Woods	2 427	3 649
Total, Region		228 310
NORTHERN REGION		
Chapleau	23 602	
Cochrane	30 715	
Gogama	7 752	
Hearst	25 245	
Kapuskasking	21 225	
Kirkland Lake	13 312	
Moosonee	215 741	
Timmins	7 899	345 491
Pt. Lake Abitibi	790	790
Total, Region		346 281
ALGONQUIN REGION		
Algonquin Park	9 376	
Bancroft	4 239	
Bracebrdige	6 454	
Minden	4 745	
Parry Sound	7 187	
Pembroke	7 306	39 307
Pt. Georgian Bay	3 875	3 875
Total, Region		43 182
SOUTHWESTERN REGION		
Alymer	6 731	
Chatham	7 389	
Owen Sound	7 817	
Simcoe	2 818	
Wingham	6 889	31 644
Pt. Lake Huron and Lake Erie	30 950	
Pt. Lake St. Clair	673	31 624
Total, Region		62 268

* August 19, 1980
Surveys and Mapping Branch

NORTH CENTRAL REGION		
Atikokan	11 321	
Geraldton	112 784	
Nipigon	25 574	
Terrace Bay	12 673	
Thunder Bay	28 451	190 803
Lake Nipigon	5 006	
Pt. Lake Superior	16 017	21 023
Total, Region		211 826
NORTHEASTERN REGION		
Blind River	9 516	
Espanola	9 523	
North Bay	10 668	
Sault Ste. Marie	7 912	
Sudbury	12 725	
Temagami	6 856	
Wawa	22 535	79 735
Pt. Lake Huron and Lake Superior	25 298	
Lake Nipissing	816	
Lake Wahnapitae	145	26 259
Total, Region		105 994
EASTERN REGION		
Brockville	3 496	
Carleton Place	6 277	
Cornwall	5 594	
Napanee	6 537	
Tweed	6 605	28 509
Pt. Lake Ontario	4 333	4 333
Total, Region		32 842
CENTRAL REGION		
Cambridge	7 141	
Huronia	6 550	
Lindsay	6 856	
Maple	4 812	
Niagara	2 670	28 029
Pt. Lake Ontario and Lake Erie	8 109	
Lake Simcoe	741	8 850
Total, Region		36 879
TOTALS		
47 Districts		968 179
12 Lakes		100 403
Area of Ontario		1 068 582

MINISTRY REGIONS AND DISTRICTS

Areas in Square Miles*

NORTHWESTERN REGION		
Dryden	4,618	
Fort Frances	4,188	
Ignace	4,426	
Kenora	5,478	
Red Lake	24,751	
Sioux Lookout	43,281	86,742
Pt. Rainy Lake	472	
Pt. Lake of the Woods	937	1,409
Total, Region		88,151
NORTHERN REGION		
Chapleau	9,113	
Cochrane	11,859	
Gogama	2,993	
Hearst	9,747	
Kapuskasking	8,195	
Kirkland Lake	5,140	
Moosonee	83,298	
Timmins	3,050	133,395
Pt. Lake Abitibi	305	305
Total, Region		133,700
ALGONQUIN REGION		
Algonquin Park	3,620	
Bancroft	1,637	
Bracebrdige	2,492	
Minden	1,832	
Parry Sound	2,775	
Pembroke	2,821	15,177
Pt. Georgian Bay	1,496	1,496
Total, Region		16,673
SOUTHWESTERN REGION		
Alymer	2,599	
Chatham	2,853	
Owen Sound	3,018	
Simcoe	1,088	
Wingham	2,660	12,218
Pt. Lake Huron and Lake Erie	11,950	
Pt. Lake St. Clair	260	12,210
Total, Region		24,428

* August 19, 1980
Surveys and Mapping Branch

NORTH CENTRAL REGION		
Atikokan	4,371	
Geraldton	43,546	
Nipigon	9,874	
Terrace Bay	4,893	
Thunder Bay	10,985	73,669
Lake Nipigon	1,933	
Pt. Lake Superior	6,184	8,117
Total, Region		81,786
NORTHEASTERN REGION		
Blind River	3,674	
Espanola	3,677	
North Bay	4,119	
Sault Ste. Marie	3,055	
Sudbury	4,913	
Temagami	2,647	
Wawa	8,701	30,786
Pt. Lake Huron and Lake Superior	9,767	
Lake Nipissing	315	
Lake Wahnapitae	56	10,138
Total, Region		40,924
EASTERN REGION		
Brockville	1,350	
Carleton Place	2,423	
Cornwall	2,160	
Napanee	2,524	
Tweed	2,550	11,007
Pt. Lake Ontario	1,673	1,673
Total, Region		12,588
CENTRAL REGION		
Cambridge	2,757	
Huronia	2,529	
Lindsay	2,647	
Maple	1,858	
Niagara	1,031	10,822
Pt. Lake Ontario and Lake Erie	3,131	
Lake Simcoe	286	3,417
Total, Region		14,239
TOTALS		
47 Districts		373,816
12 Lakes		38,766
Area of Ontario		412,582

FOREST RESOURCES GROUP

Room W-3623, Main Office. Telephone (416) 965-2785.

Executive Co-ordinator	A. H. Peacock	W3623 . . . 4319
Secretary	Mrs. I. Hart	4319
Chief Forester	K. A. Armson	W3621 . . . 3040
Chief Forest Economist	L. S. Lambert	W3630 . . . 2785

FOREST RESOURCES BRANCH

Director	Dr. R. J. Bourchier	W3645 . . . 2787
Group Analyst	D. H. Cope	W3650 . . . 2575
ADMINISTRATIVE SECTION		
Administration Officer	L. P. Comeau	W3622 . . . 2731
Administration Assistant	W. S. Howson	W3625 . . . 2785
Analyst & Contract Specialist	A. L. Wells	W3625 . . . 2785
Editor & Publications Co-ordinator	S. Burzotta	W3629 . . . 2785
FOREST PRODUCTION & CONTROL SECTION		
Forest Production & Control, Spvr.	C. J. Heeney	W3653 . . . 2575
Tree Seeds Genetics Unit, Spvr.	R. M. Rauter	W3652 . . . 2575
Forest Production Policy Unit, Spvr.	J. Cary	W3651 . . . 2575
Silviculture Information Assessment and Development Spec.	M. Chaudhry	W3649 . . . 2575
Forest Production Analyst		W3645A . . 2785
Private Land Forestry Unit, Spvr.	J. F. W. Gourlay	W3627 . . . 2785
Private Land Incentives Co-ordinator	G. Sinclair	W3627 . . . 2785
Stock Production Unit, Spvr.	K. Reese	W3648 . . . 2575
Soil and Plant Analyst	V. Sadreika	W3647 . . . 2575
Tree Distribution Co-ordinator	H. Tiemann	W3647 . . . 2785
Silviculture Data Controller	R. K. Crawford	W3647 . . . 2785
Forest Practices Unit, Spvr.	G. Brown	W3627 . . . 2575
MECHANIZATION		
Silviculture Equipment Development Co-ordinator	A. Citro	Maple 832-2761
Design Assistant	N. Mishrigi	2761
Equipment Developer	R. Foote	2761
Equipment Developer	C. W. Hopkinson	2761
Pest Control Section	Dr. R. Carrow	2761
Forest Pathologist	B. McGauley	2761
Forest Entomologist	C. S. Kirby	2761
Herbicide Specialist	Dr. R. A. Campbell	2761
Pesticide Applications	S. A. Nicholson	2761

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE

Maple Ontario. L0J 1E0. Telephone (416) 832-2761.

General Manager	D. P. Drysdale	832-2761
Executive Officer	S. R. A. Gourlay	2761
Photographer	J. Robinson	2761

TREE IMPROVEMENT AND BIOMASS SECTION

Principal Scientist	Dr. L. Zsuffa	2761
Dr. G. Buchert		2761
J. Hood		2761
H. Anderson		2761
Dr. D. Fayle		2761
P. Jaciw		2761
D. Skeates		2761

FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist	Dr. D. Burger	2761
G. Pierpoint		2761
Dr. C. Glerum		2761
A. Beckwith		2761
R. Leech		2761
Y. T. Kim		2761
Dr. F. Raymond		2761
G. Stroempl		2761

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	65,814,758
hardwoods	3,633,392
Total	69,448,150
Container Stock	13,950,538
GRAND TOTAL	83,398,688
Production Targets seeded	81,858,500

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container	Total
1972	76,597,391	5,079,258	81,676,649
1973	68,161,039	2,862,114	71,023,153
1974	65,362,395	3,402,228	68,764,623
1975	59,794,450	3,148,406	62,942,856
1976	50,944,733	5,346,866	56,291,599
1977	45,981,122	4,291,764	50,272,886
1978	48,291,842	5,461,375	53,753,217
1979	52,928,125	5,487,210	58,415,335
1980	61,453,461	7,944,817	69,398,278
1981	65,360,243	10,496,839	75,857,082
1982	69,448,150	13,950,538	83,398,688

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1982

Use	Bare Root	Container	Total
Crown land & Agreement Forest	44,874,921	13,950,538	58,825,459
*WIA	9,522,782	—	9,522,782
Other Private Land	13,449,912	—	13,449,912
Education or Science	655,510	—	655,510
Miscellaneous	945,025	—	945,025
TOTAL	69,448,150	13,950,538	83,398,688

*The Woodlands Improvement Act.

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1978	1979	1980	1981	1982
White Spruce	14,440,212	13,704,591	16,687,027	14,384,928	16,394,578
Black Spruce	8,507,184	13,170,734	11,800,627	17,365,106	17,155,688
Red Pine	7,011,779	8,627,330	8,215,238	8,534,677	7,493,071
Jack Pine	15,114,368	12,831,430	18,832,062	19,143,238	25,830,821
White Pine	2,404,671	3,694,57[illegible]	5,181,787	6,431,427	6,451,959
White Cedar	1,185,767	493,254	1,461,566	2,381,005	2,806,775
Scotch Pine	984,600	893,316	1,483,794	1,500,375	1,545,425
Silver Maple	514,600	584,853	423,958	563,229	240,785
Norway Spruce	387,904	902,881	1,158,639	1,367,267	1,093,919
Carolina Poplar	479,211	487,769	532,077	583,863	532,351
Black Walnut	360,775	341,587	301,305	459,275	364,000
White Ash	409,964	505,194	222,264	256,239	283,281
European Larch	180,502	154,055	175,874	489,290	275,202
Yellow Birch	160,400	205,827	41,440	80,144	116,400
Red Oak	160,208	398,192	499,244	258,284	316,191
Black Locust	145,708	212,583	190,235	203,250	164,475
Tamarack	9,450	28,238	255,211	143,777	309,506
Hemlock	118,049	130,456	529	68,746	272
Cottonwood	22,050	13,325	—	53,725	—
Hybrid Poplar					
Rooted	—	61,350	110,839	112,422	108,484
Unrooted	192,925	515,608	943,821	818,530	1,061,811
Japanese Larch	433,625	7,000	253,366	156,965	293,631
Aspen, unrooted	—	—	91,948	—	—
Other Species	529,265	451,182	535,427	501,320	560,063
Total	53,753,217	58,415,335	69,398,278	75,857,082	83,398,688

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County or District	1978	1979	1980	1981	1982
Algoma	176,540	234,705	281,900	305,955	190,825
Brant	73,275	142,750	207,300	222,850	129,055
Bruce	110,675	119,385	282,953	194,197	278,020
Cochrane	277,750	482,720	560,600	705,480	1,072,250
Dufferin	232,335	325,915	486,250	507,385	470,585
Dundas	44,900	49,475	129,705	125,453	68,475
Durham**	286,345	378,775	480,901	479,450	538,150
Elgin	88,604	170,320	207,066	208,435	209,899
Essex	111,023	128,450	189,420	208,541	188,513
Frontenac	56,550	85,480	115,695	136,700	193,486
Glengarry	75,175	71,025	76,675	190,742	166,500
Grey	381,255	453,124	427,215	524,400	503,740
Haldimand	102,245	241,075	298,566	524,307	74,190
Haliburton	24,450	45,125	73,200	48,100	33,800
Halton	180,910	105,225	250,970	274,165	137,575
Hastings	98,210	126,125	172,443	169,042	317,973
Huron	150,922	234,575	185,406	273,100	198,264
Kenora	415,675	374,400	102,300	273,900	189,175
Kent	87,500	135,500	137,535	303,225	233,185
Lambton	108,275	87,990	178,900	192,941	239,577
Lanark	98,000	67,137	199,312	260,175	203,900
Leeds & Grenville	146,133	139,589	369,040	297,361	333,375
Lennox & Addington	61,550	58,775	126,175	107,775	128,350
Manitoulin	11,150	10,550	55,500	27,400	15,100
Middlesex	204,306	231,282	340,788	616,575	433,402
Muskoka	36,550	86,800	66,250	73,250	68,150
Niagara	181,339	235,858	299,162	366,493	365,481
Nipissing	25,225	130,500	98,125	41,925	60,770
Norfolk	102,000	2,610	32,600	1,100	411,302
Northumberland**	181,700	220,839	330,345	326,280	530,657
Ontario**	5,057	2,062	3,008	—	2,610
Ottawa-Carleton	164,392	101,225	396,699	300,615	252,310
Oxford	103,950	165,728	232,888	275,075	197,278
Parry Sound	78,650	147,275	273,600	338,250	188,650
Peel	136,630	233,487	295,543	289,669	265,910
Perth	122,545	83,198	200,053	177,450	135,535
Peterborough	113,338	228,231	195,967	202,400	133,920
Prescott	56,750	46,350	225,425	123,875	142,825
Prince Edward	55,200	75,070	79,000	86,825	71,650
Rainy River	200,350	51,625	83,675	97,325	101,750
Renfrew	212,728	339,094	262,425	420,025	229,550
Russell	63,476	61,600	182,200	207,150	174,655
Simcoe	606,435	837,865	1,044,115	1,268,225	1,143,650

**Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1978	1979	1980	1981	1982
Stormont	33,785	36,225	84,518	138,703	50,100
Sudbury	305,700	254,612	372,482	465,222	415,335
Thunder Bay	98,191	141,875	133,675	418,325	113,325
Timiskaming	43,700	18,500	38,550	40,300	12,250
Victoria	103,549	154,615	250,207	283,922	278,930
Waterloo	71,900	118,450	267,950	170,052	111,100
Wellington	264,202	528,850	673,675	759,815	709,700
Wentworth	227,346	250,630	365,465	365,135	324,423
York	435,702	352,135	603,273	568,025	410,582
Durham Regional Municipality	.....	300	—	1,550	150
Total	7,634,143*	9,405,081*	13,026,690*	14,984,635*	13,449,912*

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in Acres at March 31, 1982

Agreement Holders	Term of Agreement	Added 1981-82	Released 1981-82	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961-Mar. 2011	.....	.....	4,211.00
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	Apr. 1964-Mar. 2004	.....	.....	*4,383.00
Cataraqui Region	Apr. 1971-Mar. 1996	.....	.....	*845.87
Catfish Creek	Apr. 1962-Mar. 2002	.....	.....	*629.00
Crowe Valley	Jan. 1963-Dec. 2003	.....	.....	200.00
Ganaraska	Apr. 1960-Mar. 2000	.....	.....	8,639.24
Grand River	Apr. 1961-Mar. 2000	.....	.....	*4,096.31
Lakehead Region	May 1958-Apr. 2008	.....	.....	*1,657.70
Long Point Regional	Apr. 1960-Mar. 2000	.....	.....	*6,326.58
Lower Thames Valley	Apr. 1964-Mar. 1984	.....	.....	300.00
Maitland Valley	Apr. 1955-Mar. 2005	.....	.....	849.00
Metropolitan Toronto & Region	Apr. 1975-Mar. 2000	.....	.....	*1,879.41
Moira River	Apr. 1978-Mar. 2000	.....	.....	*16,820.78
Napanee Region	Oct. 1954-Oct. 2004	.....	.....	*6,752.00
Niagara Peninsula	June 1963-Mar. 2003	.....	.....	186.00
North Grey Region	June 1958-June 2008	.....	.....	*7,123.23
Otonabee Region	Apr. 1976-Mar. 2002	.....	.....	3,620.20
Raison Region	Apr. 1971-Mar. 2001	.....	.....	340.00
Sauble Valley	Apr. 1960-Mar. 2002	.....	.....	*3,824.00
Saugeen Valley	Apr. 1960-Mar. 2002	.....	.....	*12,913.00
South Nation River	Apr. 1975-Mar. 2000	.....	.....	*7,593.14
St. Clair Region	May 1965-Apr. 1985	.....	.....	150.00
Upper Thames River	Apr. 1961-Mar. 2001	.....	.....	*3,368.76
Sub-Total		.....	.....	92,497.22

*Reconciliation adjustment

Agreement Holders	Term of Agreement	Added 1981-82	Released 1981-82	Total
9 TOWNSHIPS				
Bonfield	Apr. 1952-Mar.1982	.....	.....	60.00
Charlottenburgh	Apr. 1975-Mar. 1995	.....	.....	*192.00
Cramahe	Apr. 1963-Mar. 2003	.....	.....	162.00
Cumberland	July 1980-June 2030	250.00	.....	*918.44
Darlington	Apr. 1971-Mar. 1991	.....	.....	140.00
Galway & Cavendish	Terminated 81/5/01	.....	619.00	—
Machar	Sept. 1963-Aug. 1993	.....	.....	90.00
Mosa	Apr. 1963-Mar. 2003	.....	.....	144.00
Torbolton	Mar. 1953-Mar. 1983	.....	.....	430.80
Williamsburg	Apr. 1962-Mar. 2002	.....	.....	400.00
Sub-Total		250.00	619.00	2,537.24
19 COUNTIES				
Brant	Apr. 1960-Mar. 2000	.....	.....	*99.30
Bruce	Apr. 1962-Mar. 2002	.....	9.00	*15,081.33
Dufferin	Apr. 1971-Mar. 1991	.....	.....	*2,518.53
Grey	Apr. 1960-Mar. 2000	.....	.....	*8,605.25
Huron	Apr. 1960-Mar. 2000	.....	.....	*1,636.59
Kent	Apr. 1960-Mar. 2000	.....	.....	75.39
Lanark	Apr. 1980-Mar. 2000	.....	.....	*8,921.00
Leeds & Grenville	Apr. 1975-Mar. 1995	100.00	.....	*13,964.49
Lennox & Addington	Apr. 1960-Mar. 2000	.....	.....	*1,168.90
Middlesex	Apr. 1960-Mar. 2000	.....	.....	*2,404.00
Northumberland	Apr. 1961-Mar. 1981	.....	.....	*6,346.59
Oxford	Apr. 1961-Mar. 2000	.....	.....	*845.26
Peterborough	Apr. 1961-Mar. 1981	.....	.....	200.00
Prescott & Russell	May 1960-Apr. 2000	.....	2.00	*26,170.42
Renfrew	Apr. 1960-Mar. 2000	.....	.....	*16,061.99
Simcoe	Apr. 1960-Mar. 2000	.....	1.39	*26,095.88
Stormont, Dundas & Glengarry	Apr. 1975-Mar. 2000	119.49	.....	*7,463.00
Victoria	Nov. 1976-Mar. 2000	.....	.....	*9,376.93
Wellington	Apr. 1963-Mar. 1983	.....	.....	*1,288.50
Sub-Total		219.49	12.39	148,323.35
6 REGIONAL MUNICIPALITIES				
Durham	May 1960-Apr. 1980	.....	.....	*1,460.51
Halton	Apr. 1976-Mar. 2000	.....	.....	*1,562.43
Hamilton-Wentworth	Apr. 1961-Mar. 1981	.....	.....	966.64
Ottawa-Carleton	Apr. 1974-Mar. 2004	1,090.00	.....	*12,744.52
Waterloo	Apr. 1976-Mar. 2001	.....	.....	*591.21
York	Apr. 1977-Mar. 2007	.....	.....	*5,017.42
Sub-Total		1,090.00	.....	22,342.73
INDUSTRY				
Domtar	Apr. 1974-Mar. 1999	.....	.....	2,224.00
TOTAL 58 Managed Forest Areas		1,559.45	631.39	272,135.54

*Reconciliation adjustment

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1982
Areas in hectares (acres in light face)

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	**146,928**	**25,366**	**172,294**	**79**	**134**	**30,280**	**202,787**
	363,066	62,681	425,747	195	331	74,823	501,096
Harvest Cut, unevenaged management	**7,229**	**—**	**7,229**	**827**	**988**	**15,773**	**24,817**
	17,863	—	17,863	2,044	2,441	38,976	61,324
TOTAL	**154,157**	**25,366**	**179,523**	**906**	**1,122**	**46,053**	**227,604**
	380,929	62,681	443,610	2,239	2,772	113,799	562,420

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares (Acres in light face) in year ending March 31, 1982

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Sub-Total	Other Patent Lands	Total
REGENERATION								
Planting Bare Root Stock	**21,762**	**799**	**22,561**	**504**	**5,263**	**28,328**	**3,145**	**31,473**
	53,775	1,974	55,749	1,245	13,005	69,999	7,771	77,770
Planting Container Stock	**5,742**	**615**	**6,357**	**88**	**174**	**6,619**	**15**	**6,634**
	14,189	1,520	15,709	217	430	16,356	37	16,393
Planting Hybrid Poplar cuttings	**31**	**—**	**31**	**6**	**15**	**52**	**—**	**52**
	76	—	76	15	37	128	—	128
Seeding	**24,288**	**3,581**	**27,869**	**—**	**—**	**27,869**	**—**	**27,869**
	60,017	8,849	68,866	—	—	68,866	—	68,866
Scarification	**1,653**	**—**	**1,653**	**—**	**—**	**1,653**	**—**	**1,653**
	4,085	—	4,085	—	—	4,085	—	4,085
Strip Cutting	**1,979**	**900**	**2,879**	**6**	**—**	**2,885**	**—**	**2,885**
	4,890	2,224	7,114	15	—	7,129	—	7,129
Seed Tree Cutting	**1,998**	**1,102**	**3,100**	**12**	**—**	**3,112**	**—**	**3,112**
	4,937	2,723	7,660	30	—	7,690	—	7,690
Shelterwood Cutting	**7,738**	**—**	**7,738**	**—**	**80**	**7,818**	**12**	**7,830**
	19,121	—	19,121	—	198	19,319	30	19,349
Clear Cutting	**3,451**	**1,458**	**4,909**	**49**	**—**	**4,958**	**97**	**5,055**
	8,528	3,602	12,130	121	—	12,251	240	12,491
Total	**68,642**	**8,455**	**77,097**	**665**	**5,532**	**83,294**	**3,269**	**86,563**
	169,618	20,892	190,510	1,643	13,670	205,823	8,078	213,901
RE-TREATMENT	**2,027**	**236**	**2,263**	**143**	**1,867**	**4,273**	**—**	**4,273**
	5,009	583	5,592	353	4,613	10,558	—	10,558

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Sub Total	Other Patent Lands	Total
TENDING								
Hand Cleaning	**3,686**	**—**	**3,686**	**375**	**481**	**4,542**	**11**	**4,553**
	9,108	—	9,108	927	1,189	11,224	27	11,251
Herbicide Spraying	**11,666**	**8,002**	**19,668**	**727**	**2,203**	**22,598**	**886**	**23,484**
	28,827	19,773	48,600	1,796	5,444	55,840	2,189	58,029
Thinning Improvement Cuts	**6,679**	**—**	**6,679**	**1,722**	**1,588**	**9,989**	**1,455**	**11,444**
	16,504	—	16,504	4,255	3,924	24,683	3,595	28,278
Pruning	**618**	**—**	**618**	**541**	**440**	**1,599**	**10**	**1,609**
	1,527	—	1,527	1,337	1,087	3,951	25	3,976
Fertilization Drainage	**163**	**—**	**163**	**149**	**43**	**355**	**—**	**355**
	403	—	403	368	106	877	—	877
Total	**22,812**	**8,002**	**30,814**	**3,514**	**4,755**	**39,083**	**2,362**	**41,445**
	56,369	19,773	76,142	8,683	11,750	96,575	5,836	102,411
SITE PREPARATION	**44,625**	**8,664**	**53,289**	**456**	**1,709**	**55,454**	**51**	**55,505**
	110,271	21,409	131,680	1,127	4,223	137,030	126	137,156
MARKING	**38,954**	**—**	**38,954**	**2,732**	**4,292**	**45,978**	**8,017**	**53,995**
	96,257	—	96,257	6,751	10,606	113,614	19,810	133,424
TOTAL AREA TREATED	**177,060**	**25,357**	**202,417**	**7,510**	**18,155**	**228,082**	**13,699**	**241,781**
	437,524	62,657	500,181	18,557	44,862	563,600	33,850	597,450

CROWN LANDS TREATED

Areas in hectares (acres in light face) in years ending March 31

Silvicultural Operations	1978	1979	1980	1981	1982
REGENERATION					
Planting Bare Root Stock	**17,203**	**18,529**	**19,830**	**18,786**	**22,561**
	42,509	45,785	48,998	46,421	55,749
Planting Container Stock	**2,372**	**2,280**	**3,860**	**4,829**	**6,357**
	5,860	5,633	9,539	11,933	15,709
Planting Hybrid Poplar Cuttings	**—**	**—**	**—**	**24**	**31**
	—	—	—	59	76
Seeding	**28,791**	**23,548**	**24,251**	**47,296**	**27,869**
	71,145	58,189	59,926	116,868	68,866
Scarification	**4,709**	**4,013**	**2,392**	**3,241**	**1,653**
	11,637	9,917	5,911	8,009	4,085
Strip Cutting	**3,359**	**2,580**	**2,058**	**1,562**	**2,879**
	8,301	6,376	5,086	3,860	7,114
Seed Tree Cutting	**5,789**	**6,325**	**7,339**	**3,934**	**3,100**
	14,304	15,630	18,135	9,721	7,660
Shelterwood Cutting	**8,234**	**10,669**	**9,867**	**9,794**	**7,738**
	20,346	26,364	24,383	24,201	19,121
Clear Cutting	**2,125**	**2,771**	**2,266**	**6,202**	**4,909**
	5,251	6,847	5,598	15,325	12,130
Total	**72,582**	**70,715**	**71,863**	**95,668**	**77,097**
	179,353	174,741	177,576	236,397	190,510
RE-TREATMENT	**8,982**	**3,435**	**2,072**	**7,981**	**2,263**
	22,195	8,487	5,120	19,720	5,592
TENDING					
Hand Cleaning	**7,857**	**4,855**	**5,326**	**4,481**	**3,686**
	19,417	11,998	13,161	11,072	9,108
Herbicide Spraying	**13,795**	**16,955**	**13,156**	**25,404**	**19,668**
	34,089	41,896	32,509	62,774	48,600
Thinning Improvement Cuts	**17,273**	**12,853**	**8,511**	**8,209**	**6,679**
	42,683	31,761	21,032	20,286	16,504
Pruning	**811**	**661**	**695**	**853**	**618**
	2,003	1,633	1,717	2,108	1,527
Fertilization Drainage	**183**	**188**	**172**	**166**	**163**
	451	464	424	410	403
Total	**39,919**	**35,512**	**27,860**	**39,113**	**30,814**
	98,643	87,752	68,843	96,650	76,142
SITE PREPARATION	**41,895**	**42,834**	**49,061**	**51,057**	**53,289**
	103,525	105,846	121,233	126,162	131,680
MARKING	**46,572**	**50,243**	**50,607**	**43,390**	**38,954**
	115,082	124,153	125,052	107,216	96,257
TOTAL AREA TREATED	**209,950**	**202,739**	**201,463**	**237,209**	**202,417**
	518,798	500,979	497,824	586,145	500,181

1981 SEED CROP BY SPECIES

	Volume Collected (hl)
Jack pine	17,801
White pine	1,334
Scotch pine	509
Red pine	20
Black spruce	1,862
White spruce	107
Black walnut	1,759
White cedar	44
Other species	164
Total	23,600

1981 SEED REGENERATION PROGRAMS

Direct seeding	697,797,000
Nursery stock production	378,163,000
Container stock production	26,702,000
Research and miscellaneous	24,353,000
Total viable seed	1,127,015,000

SEED IN STORAGE (ANGUS SEED PLANT)

No. of viable seeds (billion)	5.671
No. of different species	80
Total weight (Kgm)	25,372
Total value (million)	$2.9

TREE SEED AREAS

Areas in hectares in bold face, acres below

	Black spruce	White spruce	White pine	Jack pine	Other	Total
Gene Pool	**1,000**	**640**	**—**	**7,872**	**460**	**9,979**
	2,470	1,592	—	19,443	1,152	24,643
Seed collection area	**400**	**279**	**188**	**1,682**	**192**	**2,741**
	988	690	464	4,155	475	6,770
Seed production area	**77**	**178**	**24**	**92**	**102**	**473**
	191	440	59	226	252	1,163
Seed orchard area	**16**	**20**	**14**	**—**	**20**	**70**
	39	49	34	—	49	171

1981-82 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced	99,716
Field inspections	8,295
Advisory service plans prepared	926
Volume of timber marked—sawlogs (cu.ft)	3,600,175
pulpwood (cords)	17,212
Youth groups serviced	325
Forestry instruction (hrs.) given	4,930

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Areas in Hectares (acres)	
New Agreements Activated in 1981-82	888	**12,344**	30,502
Agreements in effect to March 31, 1982	9,282	**155,565**	384,397
No. of trees planted	18	**167**	413
New Advisory Service Agreements 1981-82	9,522,782		

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1982

Areas in Square Kilometres (Square Miles)	Forest Management Units							
	Crown		Company		FMA		Agreement Forests	
	No.	Area	No.	Area	No.	Area	No.	Area
Approved Standard Plans ...	33	**107,371**	5	**51,555**	—	—	39	**787**
		41,456		19,906				304
Approved Standard Plans being revised.....	24	**86,625**	—	—	—	—	2	**109**
		33,446						42
Original Standard Plans being prepared	16	**52,297**	10	**104,451**	8	**52,406**	17	**117**
		20,192		40,328		20,234		45
Inactive Units	9	**87,278**	—	—	—	—	—	—
		33,698						
Total	82	**333,571**	15	**156,006**	8	**52,406**	58	**1,031**
		128,792		60,234		20,234		391

TIMBER SALES BRANCH

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Director	E. Markus	W-3545...3948
Special Projects & Energy Biomass Co-ordinator	R. Alton	W-3547...2731
WOOD ALLOCATION SECTION		
Supervisor	J.R. Keddie	W-3543...2731
Timber Licensing, Spvr.	K. Cleary	W-3549...2731
Licensing Unit, Spvr.	F.C. Parris	W-3544...2731
Resource Economist	I.A. Nausedas	W-3548...2731
Industrial Liaison Officer	W. Wardle	H- 548...5760
Agreement Administrator	J. Brown	W-3546...2731
MANAGEMENT PLAN SECTION		
Management Planning, Spvr.	A.M. van Fraassen	W-3602...7631
Chief Mensurationist	J. Mervart	W-3540...2731
Planning Analyst	G. Protich	W-360...7631
Planning Analyst	H. van Bers	W-3604...7631
WOOD MEASUREMENT SECTION		
Supervisor	J. H. Butts	W-3610...0378
Provincial Wood Measurement Training Officer	J. Bingley	W-3610...0378
Senior Data Processing Officer	R.G. Johnson	W-3610...0378
Data Control Officer	K.A. Haynes	W-3610...0378
FOREST MANAGEMENT INFORMATION SECTION		
Supervisor	J. E. Osborn	W-3603...7631
FOREST RESOURCES INVENTORY SECTION		
Supervisor	B. Cardwell	W-3422...6914
Darkroom Supervisor	J. Howard	W-3520...6914
Operation Manager	D. Trafford	W-3423...6914
Photo Interpretation Sprvr.	A. Manley	W-3420...6914
FORMAGAIN UNIT		
Supervisor	W. E. Jenns	M-1B43 . 3-0882

MANAGEMENT UNITS

Areas in square kilometres (square miles in light face) at March 31

	CROWN LAND FORESTS								AGREEMENT FORESTS	
	Crown		Company		FMA		Total			
Year	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1978	88	**333,821.0**	26	**199,348.8**			114	**533,169.7**	60	**1,064.5**
		128,889.0		76,969.0				205,858.0		411.0
1979	88	**333,821.0**	17	**199,348.8**			105	**533,169.7**	59	**1,077.4**
		128,889.0		76,969.0				205,858.0		416.0
1980	88	**334,418.0**	17	**198,751.0**			105	**533,169.0**	60	**1,090.0**
		129,120.0		76,681.0				205,801.0		421.0
1981	78	**333,402.0**	14	**165,016.0**	5	**45,584.0**	97	**544,002.0**	60	**1,096.0**
		128,727.0		63,713.0		17,600.0		210,040.0		423.2
1982	82	**333,571.0**	15	**156,006.0**	8	**52,406.0**	105	**541,983.0**	58	**1,013.0**
		128,792.0		60,234.0		20,234.0		209,260.0		391.0

TIMBER LICENCES

Areas in square kilometres (square miles in light face) at March 31

	Under Section 2		Under Section 3		Under Section 5		Total Licences	
Year	No.	Area	No.	Area	No.	Area	No.	Area
1978	28	**33.9**	386	**241,194.4**	14	**69.9**	428	**241,298.3**
		13.1		93,125.7		27.0		93,165.8
1979	44	**39.1**	415	**239,531.2**	19	**96.3**	478	**239,666.6**
		15.1		92,483.5		37.2		92,535.8
1980	78	**75.6**	412	**242,711.9**	20	**86.5**	510	**242,874.1**
		29.2		93,711.6		33.4		93,774.2
1981	56	**69.4**	428	**243,918.6**	64	**329.7**	548	**244,317.7**
		26.8		94,177.5		127.3		94,331.6
1982	34	**48.0**	420	**243,085.9**	58	**643.0**	512	**243,776.9**
		18.5		93,856.0		248.3		99,122.8

MILL LICENCES

Type of Mill	1977	1978	1979	1980	1981
Saw Mills, 8-hour capacity					
Lumber..... over 50M fbm	58	61	54	60	60
Lumber..... 10M to 50M fbm	99	96	96	96	85
Lumber..... under 10M fbm	588	602	594	648	608
Misc. Sawn Products	31	30	41	38	50
Saw Mills, Total.....	776	789	785	842	803
Veneer Mills	24	24	28	31	25
Pulp Mills.....	22	23	23	21	21
Total.....	822	836	836	894	849

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres (000s cubic feet in light face) and $000s in years ending March 31

Species	1978	1979	1980	1981	1982
SOFTWOOD					
Balsam	**529,184**	**556,482**	**612,228**	**855,962**	**718,975**
	18,688	19,652	21,621	30,228	23,453
Cedar	**12,289**	**15,574**	**21,139**	**12,912**	**13,659**
	434	550	747	456	446
Hemlock	**58,049**	**73,397**	**59,271**	**54,595**	**63,504**
	2,050	2,592	2,093	1,928	2,072
Jack Pine	**5,010,884**	**5,086,830**	**5,733,806**	**5,475,573**	**5,362,713**
	176,958	179,640	202,487	193,368	174,932
Red Pine	**174,205**	**144,444**	**177,397**	**173,186**	**183,663**
	6,152	5,101	6,265	6,116	5,991
Scotch Pine	.....	—	—	—	**529,159**
	.....	.....	—	—	17,261
White Pine	**586,894**	**492,882**	**560,970**	**457,487**	**7,724,772**
	20,726	17,406	19,810	16,156	251,982
Spruce	**7,511,569**	**7,568,231**	**8,222,273**	**8,029,356**	**2,330**
	265,269	267,270	290,367	283,554	73
Tamarack	**1,926**	**2,152**	**4,269**	**5,239**	**18,503**
	68	76	151	185	604
Mixed	**7,079**	**6,683**	**9,209**	**9,231**	**2,021**
	250	236	325	326	65
HARDWOOD					
Ash	**1,303**	**1,727**	**2,304**	**1,387**	**11,042**
	46	61	81	49	358
Basswood	**7,759**	**11,100**	**12,836**	**8,382**	**19,581**
	274	392	453	296	634
Beech	**14,696**	**24,806**	**21,663**	**14,526**	**77,523**
	519	876	765	513	2,511
White Birch	**66,290**	**79,627**	**88,532**	**57,370**	**105,982**
	2,341	2,812	3,126	2,026	3,433
Yellow Birch	**111,115**	**111,851**	**112,682**	**83,563**	**16**
	3,924	3,950	3,979	2,951	1
Butternut	.....	**28**	**13**	—	**1,373**
	.....	1	.....	—	44
Cherry	**821**	**1,133**	**1,148**	**595**	**39**
	29	40	41	21	1
Elm	**623**	**283**	**283**	**113**	**1**
	22	10	10	4	.....
Maple	**241,344**	**270,454**	**249,783**	**165,200**	**219,345**
	8,523	9,551	8,821	5,834	7,105
Oak	**8,920**	**11,270**	**13,266**	**10,024**	**11,389**
	315	398	469	354	369
Poplar	**1,059,586**	**1,319,903**	**1,384,875**	**1,297,761**	**1,800,431**
	37,419	46,612	48,906	45,830	58,316
Mixed	**452,984**	**592,897**	**626,132**	**585,423**	**647,366**
	15,997	20,938	22,112	20,674	20,968
TOTALS					
Softwoods	**13,892,165**	**13,946,675**	**15,400,562**	**15,073,554**	**14,617,179**
	490,598	492,523	543,866	532,317	476,812
Hardwoods	**1,965,497**	**2,425,051**	**2,513,517**	**2,224,358**	**2,876,121**
	69,411	85,640	88,764	78,552	93,805
Total	**15,857,662**	**16,371,697**	**17,914,078**	**17,297,912**	**17,513,300**
	560,009	578,162	632,630	610,869	574,413
Value*	$32,357	$35,919	$46,184	$43,727	$42,453

*Export Levy not included.

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1981

Tree Species	Volume in Cubic Feet	Volume in Cubic Metres	Bonus $	Crown Dues $	Stumpage $ Value
SOFTWOODS					
White Pine	17,261,162.83	529,158.885	609,970.39	1,209,908.82	1,819,879.21
Red Pine	5,991,098.05	183,663.337	195,354.19	423,889.35	619,243.54
Jack Pine	174,931,682.11	5,362,712.511	518,110.16	13,623,638.38	14,141,748.54
White Spruce	3,665,825.00	112,379.675	5,322.11	308,534.71	313,856.82
Black Spruce	17,857,640.93	547,444.541	22,715.45	1,491,510.14	1,514,225.59
Spruce, Mixed	230,458,600.47	7,064,947.899	797,326.06	17,928,932.29	18,726,258.35
Hemlock	2,071,506.55	63,504.186	18,521.31	141,560.19	160,081.50
Balsam	23,452,977.32	718,975.393	75,057.16	1,637,473.01	1,712,530.17
Cedar	445,570.44	13,659.425	6,693.95	31,644.83	38,338.78
Tamarack	72,754.02	2,230.350	285.77	5,011.12	5,296.89
Mixed Conifers	603,574.19	18,503.194	657.45	9,240.65	9,898.10
Total Softwoods	476,812,391.90	14,617,179.396	2,250,014.00	36,811,343.49	39,061,357.49
HARDWOODS					
Maple	7,104,598.38	219,345.427	220,722.93	570,118.67	790,841.60
Yellow Birch	3,432,751.70	105,981.837	180,599.84	297,874.60	478,474.44
White Birch	2,510,967.44	77,522.922	87,490.83	39,882.40	127,373.23
Oak	368,875.85	11,388.572	27,038.71	27,253.75	54,292.46
Beech	634,234.03	19,581.168	17,812.54	49,538.81	67,351.35
Ash	65,455.59	2,020.858	7,222.45	4,637.36	11,859.81
Elm	1,256.12	38.781	83.08	384.25	467.33
Basswood	357,665.28	11,042.460	33,675.79	24,644.40	58,320.19
Butternut	506.61	15.641	50.82	54.26	105.08
Ironwood	439.27	13.562	1.52	1.65	3.17
Cherry	44,478.89	1,373.229	1,073.46	3,440.04	4,513.50
Poplar	58,315,948.72	1,800,430.649	258,284.65	927,122.20	1,185,406.85
Mixed Hardwoods	20,968,176.58	647,365.784	283,285.77	329,844.08	613,129.85
Total Hardwoods	93,805,355.63	2,896,120.890	1,117,342.39	2,274,796.47	3,392,138.86
GRAND TOTAL	574,412,635.56	17,513,300.286	3,367,356.39	39,086,139.96	42,453,496.35

TIMBER HARVESTED ON CROWN LAND BY METHOD OF MEASUREMENT

In cubic metres (000s cubic feet in light face) and $000s in years ending March 31

Year	Cords		Cubic Feet		Foot Board Measure					Stumpage
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 3	Mass	Total	Value
1978.....	**3,497,493**	**572,877**	**6,094,200**	**394,991**	**129,096**	**178,736**	**78,931**	**4,919,241**	**15,882,863**	**$32,357**
	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446	560,009	
1979.....	**3,936,658**	**694,300**	**5,862,540**	**531,167**	**125,132**	**202,040**	**105,506**	**4,922,332**	**16,397,743**	**$35,919**
	139,022	24,519	207,034	18,758	4,419	7,135	3,720	173,555	578,163	
1980.....	**4,339,917**	**708,271**	**6,059,439**	**656,378**	**121,369**	**191,354**	**101,058**	**5,736,293**	**17,914,078**	**$46,184**
	153,263	25,012	213,987	23,180	4,286	6,758	3,569	202,575	632,630	
1981.....	**4,046,179**	**664,864**	**5,855,397**	**471,051**	**83,192**	**133,923**	**65,384**	**5,977,929**	**17,297,913**	**$43,727**
	142,889	23,479	206,781	16,635	2,938	4,729	2,309	211,108	610,869	
1982.....	**3,889,894**	**558,760**	**5,070,186**	**611,389**	**107,244**	**181,592**	**81,943**	**6,719,923**	**17,513,300**	**$42,453**
	126,888	18,098	165,389	19,803	3,474	5,882	2,654	218,955	574,413	

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

(Administrative Regions of Ministry of Natural Resources)
In cubic metres (000s cubic feet in light face) in years ending March 31

Regions	1980	1981	1982
Northwestern			
Softwoods	**3,621,019**	**3,626,199**	**3,688,116**
	127,875	128,058	120,306
Hardwoods	**38,722**	**50,659**	**71,194**
	1,367	1,788	2,306
North Central			
Softwoods	**5,209,534**	**4,746,640**	**4,464,605**
	183,973	167,626	145,635
Hardwoods	**839,366**	**789,049**	**923,375**
	29,642	27,865	29,908
Northern			
Softwoods	**5,154,315**	**5,151,203**	**4,795,869**
	182,023	181,912	156,441
Hardwoods	**414,242**	**396,549**	**538,589**
	14,629	14,004	17,445
Northeastern			
Softwoods	**1,027,730**	**1,091,700**	**1,315,205**
	36,294	38,553	42,902
Hardwoods	**601,760**	**509,817**	**766,063**
	21,251	18,004	24,813
Algonquin			
Softwoods	**349,480**	**440,922**	**324,081**
	12,342	15,571	10,572
Hardwoods	**534,308**	**402,524**	**492,500**
	18,869	14,215	15,952
Eastern			
Softwoods	**38,304**	**16,905**	**29,304**
	1,353	597	956
Hardwoods	**84,471**	**75,776**	**104,400**
	2,983	2,676	3,382
Central			
Softwoods	**179**	—	—
	6	—	—
Hardwoods	**648**	—	—
	23	—	—
Southwestern			
Softwoods	—	—	—
	—	—	—
Hardwoods	—	—	—
	—	—	—
Total, Ontario			
Softwoods	**15,400,562**	**15,073,554**	**14,617,179**
	543,866	532,317	476,812
Hardwoods	**2,513,517**	**2,224,358**	**2,896,121**
	88,764	78,552	93,805
Total	**17,914,078**	**17,297,912**	**17,513,300**
	632,630	610,869	574,413

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

—in year ending March 31, 1982

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
STACKED, ROUGH					
White Pine	7,506.110	229,724.85	7,042.454	15,836.64	16,636.61
Red Pine	7,933.841	258,614.49	7,928.096	15,227.09	16,089.37
Jack Pine	1,387,444.781	45,392,737.08	1,391,561.529	3,567,882.42	3,657,257.06
Black Spruce	6,907.210	225,313.19	6,907.210	16,392.99	17,319.68
Spruce, Mixed	1,771,027.029	56,699,261.58	1,768,830.827	4,564,130.58	4,698,189.32
Hemlock	13.157	429.18	13.157	29.80	30.22
Balsam	92,866.787	3,017,117.84	92,492.883	237,193.20	249,646.59
Cedar	4,908.614	157,430.12	4,826.184	11,102.80	11,395.18
Tamarack	1,445.604	47,481.80	1,455.604	3,213.97	3,266.62
White Birch	22,978.914	740,490.53	22,861.702	11,415.86	56,080.51
Ash	8.837	286.23	8.837	4.04	4.04
Poplar	503,322.016	16,188,877.38	499,810.972	217,107.15	274,312.40
Hardwoods, Mixed	7,230.245	214,751.37	6,630.175	4,153.68	10,855.47
TOTAL	3,813,603.145	124,172,515.64	3,810,369.630	8,663,690.22	9,011,083.07
STACKED, PEELED					
Jack Pine	98,898.990	3,226,085.05	98,898.990	268,163.10	271,479.00
Spruce, Mixed	388,624.257	12,676,923.26	388,624.257	1,052,089.58	1,081,542.03
Balsam	121,304.733	3,956,960.39	121,304.733	209,579.37	213,630.32
Cedar	8.471	276.32	8.471	20.09	20.96
Poplar	29,448.462	953,835.68	29,448.462	16,914.72	18,219.29
TOTAL	638,284.913	20,814,080.70	638,284.913	1,546,766.86	1,584,891.60

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
CUBIC METRES					
White Pine	399,179.223	13,021,226.25	399,179.223	902,606.03	1,434,057.66
Red Pine	109,233.090	3,562,857.20	109,233.090	246,018.30	391,134.80
Jack Pine	1,327,466.772	43,301,966.10	1,327,466.772	3,335,417.75	3,451,087.12
White Spruce	112,379.675	3,665,825.00	112,379.675	308,534.71	313,856.82
Black Spruce	540,537.331	17,632,327.74	540,537.331	1,475,117.15	1,496,905.91
Spruce, Mixed	2,292,756.001	74,789,700.75	2,292,756.001	5,752,931.50	6,085,561.77
Hemlock	50,940.567	1,661,681.30	50,940.567	112,619.39	130,734.65
Balsam	227,963.613	7,436,173.06	227,963.613	564,834.88	592,959.94
Cedar	8,790.970	287,864.00	8,824.770	20,521.94	26,922.64
Tamarack	774.746	25,272.21	774.746	1,797.15	2,030.27
Conifers, Mixed	129.855	4,235.87	129.855	59.34	206.46
White Birch	54,661.220	1,770,476.92	54,661.220	28,466.54	71,292.72
Ash	10.750	348.19	10.750	4.91	7.00
Elm	13,134.000	73.72	2.276	262.68	262.68
Poplar	556,186.118	18,014,868.36	556,186.118	301,262.16	422,322.97
Hardwoods, Mixed	528.948	17,132.63	528.948	242.92	555.39
Total	5,694,672.879	185,192,029.30	5,681,574.955	13,050,697.35	14,419,898.80
BOARD FOOT MEASURE, GRADE 1					
Maple	12,584.600	1,997,042.57	61,656.146	294,005.97	385,167.86
Yellow Birch	7,192.670	1,086,191.23	33,534.771	166,294.06	242,985.89
Oak	659.580	108,852.23	3,360.674	16,069.16	25,548.55
Beech	1,001.370	161,211.99	4,977.215	23,215.66	30,171.38
Ash	98.530	16,650.21	514.054	2,400.64	5,535.94
Elm	3.340	518.53	16.009	79.14	97.07
Basswood	563.930	92,628.08	2,859.774	13,369.45	23,683.15
Butternut	1.520	230.20	7.107	36.91	65.22
Cherry	65.390	10,323.05	318.711	1,498.65	1,868.18
Total	22,170.930	3,473,648.09	107,244.461	516,969.64	715,123.24

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
BOARD FOOT MEASURE GRADE 2					
Maple	21,996.810	3,562,006.23	109,972.406	255,679.25	353,610.61
Yellow Birch	10,606.980	1,651,613.62	50,991,467	122,197.92	224,166.40
Oak	756.140	125,708.57	3,881.092	9,356.59	18,816.12
Beech	2,134.180	350,918.28	10,834.155	24,695.77	32,585.83
Ash	159.390	27,530.50	849.969	1,944.05	5,197.28
Elm	3.260	512.51	15.823	40.17	68.20
Basswood	806.680	136,754.47	4,222.120	9,582.87	22,056.61
Butternut	1.330	223.62	6.904	16.57	32.40
Cherry	161.310	259,706.42	818.105	1,842.19	2,469.55
Total	36,626.080	9,676,980.45	181,592.041	425,355.38	659,003.00
BOARD FOOT MEASURE GRADE 3					
Maple	8,745.480	1,545,549.58	47,716.875	20,433.45	52,063,13
Yellow Birch	4,082.400	694,946.85	21,455.599	9,382.62	11,322.15
Oak	738.280	134,315.05	4,146,806	1,828.00	9,927.79
Beech	690.640	122,103.76	3,769.798	1,627.38	4,594.14
Ash	129.050	20,640.46	637.248	283.72	1,115.55
Elm	.890	151.36	4.673	2.26	39.38
Basswood	694.920	128,282.73	3,960.566	1,692.08	12,580.43
Butternut	.310	52.80	1.630	.78	7.46
Ironwood	.350	439.27	13.562	1.65	3.17
Cherry	43.180	7,657.42	236.413	99.20	175.77
Total	15,125.500	2,654,139.28	81,943.170	35,351.14	91,828.97

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

—in year ending March 31, 1982

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
FUELWOOD, STACKED					
Conifers, Mixed	17,390.963	567,048.43	17,383.459	8,728.94	8,889.14
Hardwoods, Mixed	238,219.443	7,592,528.82	234,409.658	111,564.46	305,581.98
Total	255,610.406	8,159,577.25	251,793.117	120,293.40	314,451.12
FUELWOOD, CUBED					
Conifers, Mixed	989.880	32,289.89	989.880	452.37	822.50
Hardwoods, Mixed	27,820.565	901,108.10	27,820.565	13,044.42	26,960.07
Total	28,810.445	933,397.99	28,810.445	13,496.79	27,782.57
FUELWOOD, MASS SCALED					
Hardwoods, Mixed	13,106.295	381,064.92	11,764.894	5,314.82	6,044.30
Total	13,106.295	381,064.92	11,764.894	5,314.82	6,044.30
MASS SCALED WOOD					
White Pine	100,933.873	4,010,211.72	122,937.208	291,466.15	369,184.94
Red Pine	56,271.156	2,169,300.17	66,502.151	162,643.96	212,019.37
Jack Pine	2,056,190.803	83,010,893.88	2,544,785.220	6,452,175.11	6,761,925.36
Spruce, Mixed	2,011,336.749	85,292,714.87	2,614,736.814	6,559,780.63	6,860,965.23
Hemlock	11,646.828	409,396.07	12,550.462	28,911.00	29,316.63
Balsam	255,041.571	9,042,726.03	277,214.164	625,865.56	656,293.32
Poplar	673,005.736	23,158,367.29	714,985.097	391,838.17	470,552.19
Hardwoods, Mixed	410,597.450	11,861,591.91	366,211.544	195,523.78	263,132.64
Total	5,575,024.166	218,955,201.94	6,719,922.660	14,708,204.36	15,623,389.68
TOTAL TIMBER CUT IN PROVINCE		574,412,635.56	17,513,300.286	39,086,139.96	42,453,496.35

Number of District Cutting Licences issued and included above: 10,351

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector / Year	Establishments No.	Total Employees No.	Total Salaries and Wages $000s	Fuel and Electricity $000s	Materials and Supplies $000s	Value of Shipments $000s	Total Value Added $000s
1976							
Logging	269	7,694	126,888	11,014	153,503	353,893	196,735
Wood Industries	683	19,868	212,309	17,561	386,944	734,319	343,414
Paper and Allied	301	45,645	612,501	145,410	1,291,516	2,459,739	1,083,376
Total	1,253	73,207	951,698	173,985	1,831,963	3,547,951	1,623,525
Furniture and Fixtures*	470	21,712	226,778	6,781	350,314	707,781	371,375
1977							
Logging	246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries	645	20,110	242,641	22,715	447,267	870,023	410,509
Paper and Allied	287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total	1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*	455	20,078	222,317	7,734	337,931	709,599	368,612
1978							
Logging	255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries	707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper and Allied	319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total	1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures*	527	20,968	250,535	8,299	390,909	828,564	437,325
1979							
Logging	321	9,684	197,276	17,084	306,121	588,598	278,921
Wood Industries	761	22,902	320,144	31,134	690,807	1,319,647	629,169
Paper and Allied	334	46,172	827,101	252,576	2,007,803	3,872,205	1,661,591
Total	1,416	78,758	1,344,521	300,794	3,004,731	5,780,450	2,569,681
Furniture and Fixtures*	618	23,650	307,672	9,856	503,463	1,043,909	547,979
1980							
Logging	391	9,578	215,652	24,072	365,267	668,003	319,883
Wood Industries	778	21,348	328,793	33,475	712,130	1,275,892	562,631
Paper and Allied Industries	349	47,861	926,779	279,530	2,368,722	4,598,977	1,992,117
Total	1,518	78,787	1,471,224	337,077	3,446,119	6,542,872	2,874,631
Furniture and Fixtures*	607	23,703	340,550	11,254	606,934	1,224,628	615,070

*Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP*

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Head, Planning & Administration	G. E. Soucie	R-810	5484
Financial Officer	K. H. Stahl	R-811	2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121	1283
Executive Officer	G. Fremhold-Treu	R-1118	2095
Program Evaluation Geologist	Dr. M. A. Lee	R-1117A	2095
Regional Liaison Geologist	C. R. Kustra	R-1119	5180
Geoscience Research Grant Program	Mrs. W. Paquette	R-806	1546
Exploration Technology Dev. Fund	R. B. Watson	R-832A	1546
Precambrian Geology Section	J. Wood, Spvr.	R-914	1321
North Archean Group	H. Wallace	R-921	1827
Central Archean Group	Dr. P. C. Thurston	R-923	1827
South Archean Group	N. F. Trowell	R-907	4817
Proterozoic Group	Dr. B. O. Dressler	R-905	2326
Engineering & Terrain Geology Section	Dr. O. L. White, Spvr.	R-707	1182
Paleozoic & Mesozoic Subsection	Dr. P. G. Telford	R-706	1182
Hydrocarbon Energy Res. Program	Dr. P. G. Telford	R-706	1182
Quaternary Geology Subsection	E. V. Sado	R-701	1182
Aggregate Assessment Office	W. D. Scott	R-705	1182
Geophysics/Geochemistry Section	R. B. Barlow, Spvr.	R-708	1697
Mineral Deposits Section	Dr. A. C. Colvine, Spvr.	R-1026	1466
Geoservices Section	Dr. A. E. Pitts, Spvr.	R-912	5601
Geoscience Data Centre	H. A. Groen	R-804	4641
Assessment Files Research	R. C. Owen	R-819	6139
Geoscience Information	E. B. Freeman	R-807	0190
Scientific Review	Mrs. G. M. Scott	R-718	7325
Geoscience Laboratores	Dr. C. Riddle	R-1117	1337
Mines Library	Mrs. N. Thurston	R-812	1352
Technical Services	Ms. L. Burchat	R-915	4245

*See Mining Lands and Prospecting Activities under Lands Administration Branch

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey, 1981

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY SECTION	
1.	Lingman Lake Area	B. C. Wilson
2.	Western Uchi Subprovince Synoptic Project	P. C. Thurston
3.	Red Lake Synoptic Project	H. Wallace
4.	Bowerman-Belanger Townships	T. L. Muir
5.	Lithophile Mineralization, NW Ontario	F. W. Breaks
6.	MacQuarrie-McGeorge Townships	G. W. Johns
7.	Wabigoon-Quetico Subprovince Boundary Project	R. H. Sutcliffe
8.	O'Sullivan Lake Area	J. Inasi
9.	Terrace Bay Area	M. W. Carter
10.	Josephine Area	R. P. Sage
11.	Wawa Area, Mineralization and Volcanic Stratigraphy	R. P. Sage
12.	Keefer, Denton, and Thorneloe Townships	A. G. Choudhry
13.	Parnes Lake Area	R. Huggins
14.	Pensyl Lake Area	G. M. Siragusa
15.	Batchawana Synoptic Project	E. C. Grunsky
16.	Algorithm for Classification of Subalkalic Volcanic Rocks	E. C. Grunsky
17.	Kawashegamuk Lake Area	C. E. Blackburn D. U. Kresz
	ENGINEERING AND TERRAIN GEOLOGY SECTION	
18.	Ear Falls and Pakwash Areas	M. J. Ford
19.	Achray Area	R. J. Kodybka
20.	Chatham and Wheatley Areas	E. V. Sado
21.	Orillia Area	P. F. Finamore
22.	Sans Souci, Lake Joseph, Penetanguishene, and Christian Island Areas	M. J. Batterson
23.	Paleozoic Outliers on the Canadian Shield	D. J. Russell
24.	Aggregate Resources Inventory, Southern Ontario	D. W. Scott
	GEOPHYSICS/GEOCHEMISTRY SECTION	
25.	Night Hawk Test Range, Electromagnetic Systems	R. B. Barlow
26.	Gravity Study, North Central Ontario	V. K. Gupta
27.	Regional Geochemistry, Southwestern Ontario	I. Thomson
28.	Wawa Area, Integrated Studies of Lake System Geochemistry	I. Thomson
	MINERAL DEPOSITS SECTION	
29.	Northern Cobalt Embayment, Lorrain Formation Study	A. C. Colvine
30.	Mine Centre-Fort Frances Area, Mineralization Study	K. H. Poulsen
31.	Grenville Province, Zinc and Graphite	T. R. Carter
32.	Weagamow-North Caribou Lake Belt, Reconnaissance	A. J. Andrews D. R. Sharpe D. A. Janes
33.	Lundy Township	L. Owsiacki
34.	Cobalt Embayment, Basal Placer Gold Concentrations	D. G. F. Long

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey, 1981

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY SECTION	
1.	Dalhousie Lake Area	L. Pauk
2.	Marmora, Belmont, and southern Methuen Townships	J. R. Bartlett J. M. Moore
3.	Grenville Province, Carbonate Metasediment Study	M. S. Bourque
4.	Cascaden, Dowling, and Trill Townships	J. Lafleur
5.	Sudbury Irruptive, Footwall Study	B. O. Dressler
6.	Cobalt Area, Huronian Sedimentation Study	A. S. Legun
7.	Kirkland Lake Area, Stratigraphic Mapping	L. S. Jensen N.F. Trowell
8.	Ben Nevis Area, Alteration Study	E. C. Grunsky
	ENGINEERING AND TERRAIN GEOLOGY SECTION	
9.	Bannockburn Area, Quaternary Geology	B. S. Goldstein
10.	Tweed, Belleville and Wellington Areas, Quaternary Geology	J. G. Leyland
11.	Munro Esker, Stratigraphy and Sedimentation Study	C. L. Baker
12.	Constance-Hanlon Lakes Area, Quaternary Geology	J. A. Richard
13.	Kingston Area, Paleozoic Geology	D. M. Carson
14.	Southern Ottawa—St. Lawrence Lowlands, Paleozoic Geology	D. M. Carson
15.	Manitoulin Island, Limestone—Dolostone Study	M. D. Johnson
16.	Northern Ontario Aggregate Resources Inventory	staff
	GEOPHYSICS/GEOCHEMISTRY SECTION	
17.	Kirkland Lake Area, Till Prospecting Study	J. T. Lourim I. Thomson
18.	Kirkland Lake Area, Basal Till Surveys	I. Thomson D. R. Wadge
19.	Northern Ontario Electromagnetic—Magnetic Surveys	R. B. Barlow
	MINERAL DEPOSITS SECTION	
20.	Cargill Complex, Industrial Minerals	M. A. Vos
21.	Terrace Bay Batholith, Mink Lake Stock and Cairo Stock, Mineralization	S. Marmont A. C. Colvine
22.	Early Precambrian Porphyry Deposits	A. C. Colvine S. Marmont
23.	Kirkland Lake Gold Study	F. R. Ploeger
24.	Cordova Gabbro Mineralization Study	P. B. Thomas M. E. Cherry

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1979	1980	1981	1982
Universities	**Projects**	**Projects**	**Projects**	**Projects**
Brock	1	—	1	2
Carleton	4	3	2	1
Guelph	1	—	—	—
Lakehead	—	—	1	—
Laurentian	1	2	3	1
McMaster	—	1	1	1
Ottawa	2	2	—	—
Queen's	1	2	3	1
Toronto	8	8	10	8
Waterloo	2	2	2	2
Western	2	5	5	4
Windsor	2	2	1	1
York	—	—	—	—
Total	24	27	29	21
	$406,503	**$475,567**	**$536,447**	**$418,289**

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted
	1982
AlphaNUCLEAR Co.	1
Barringer Magenta Ltd.	2
Crone Geophysics Ltd.	1
EDA Instruments Inc.	1
Gem Systems Inc.	1
Geotech Ltd.	1
Lamontagne Geophysics Ltd.	1
Nuclear Activation Services Ltd.	1
Paterson, Grant & Watson Ltd.	1
Phoenix Geophysics Ltd.	1
Questor Surveys Ltd.	2
Scintrex Ltd.	1
Technical Services Laboratories Ltd.	1
Accepted	15
Allocations	$780,520

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1977	1978	1979	1980	1981
Preliminary Maps	61	200	183	203	134
Colored Geology Maps	28	12	14	9	21
N. Ont. Engineering & Terrain Geology	—	—	11	51	31
Geophysical/Geochemical	242	253	426	34	77
Aggregate Resource Inventory Papers	—	—	1	21	19
Guidebooks	—	—	1	—	—
Mineral Deposit Circulars	1	1	2	—	4
Miscellaneous Papers	5	6	7	7	8
Non-serial Publications	2	2	3	4	7
Open File Reports	14	22	22	42	41
Reports	13	16	11	7	12
Studies	3	—	1	—	1

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1976	1977	1978	1979	1980	1981	1946-81
FILES ADDED							
Technical Surveys and Summaries for Assessment Credit	240	240	300	350	453	821	7,838
MEAP	56	45	50	50	48	35	518
Ontario Securities Commission and Misc.	81	48	25	27	104	40	674
Drilling Reports	400	300	320	340	310	388	9,419
OPERATIONS							
Enquiries	2,685	3,460	3,527	3,274	2,577	2,567	
Files Examined	14,702	14,520	14,343	15,640	17,696	17,769	
Control Maps Examined	8,932	7,141	6,569	6,361	6,104	5,465	

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGIONS

MNR REGIONS	1978	1979	1980
	$	$	$
ALGONQUIN REGION			
Metallic minerals	—	—	54,697,685
Non-metallic minerals	—	—	16,601,372
Structural Materials	—	—	10,069,196
Total	82,794,010	85,026,932	81,368,253
CENTRAL REGION			
Non-metallic minerals	4,887,049	4,789,766	5,753,434
Natural gas, petroleum	2,240,589	2,248,754	995,055
Structural materials	251,711,737	259,454,996	284,761,165
Total	258,839,375	266,493,516	291,509,654
EASTERN REGION			
Metallic minerals	—	—	—
Non-metallic minerals	—	—	771,755
Structural materials	—	—	95,298,546
Total	93,425,343	100,971,141	96,070,301
NORTH CENTRAL REGION			
Metallic minerals	178,286,494	214,719,805	156,468,788
Non-metallic minerals	—	—	698,156
Structural materials	5,570,738	4,127,021	3,975,687
Total	183,857,232	218,846,826	161,142,631
NORTHERN REGION			
Metallic minerals	407,973,913	584,530,403	747,565,752
Non-metallic minerals	2,045,044	2,228,022	3,752,770
Structural materials	4,090,812	3,841,462	4,501,871
Total	414,109,769	590,599,887	755,820,393
NORTHEASTERN REGION			
Metallic minerals	1,157,576,950	1,356,670,381	2,435,663,070
Non-metallic minerals	10,673,234	12,402,041	17,737,296
Structural materials	15,222,770	14,627,428	30,563,152
Total	1,183,472,954	1,383,699,850	2,483,963,518
NORTHWESTERN REGION			
Metallic Minerals	239,454,845	339,401,530	414,769,590
Non-metallic minerals	—	—	885,049
Structural materials	5,292,637	5,047,880	7,429,567
Total	244,747,482	344,449,410	423,084,206
SOUTHWESTERN REGION			
Natural gas, petroleum	27,301,960	27,430,246	42,273,550
Non-metallic minerals	61,850,200	69,134,668	72,904,536
Structural materials	131,778,552	148,831,020	143,629,290
Total	220,930,712	245,395,934	258,807,376
Sand and gravel produced in unorganized territories	1,900,836	5,127,386	—
ONTARIO TOTAL	2,684,077,713	3,240,610,882	4,551,766,332

Source: Mineral Statistics Section, Ministry of Natural Resources

MINERAL RESOURCES BRANCH

Room W-4626, Main Office. Telephone (416) 965-1559.

Branch Director	Dr. T. P. Mohide	W4626 ... 1559
Mineral Statistics Section	G. Weatherson, Spvr.	W4632 ... 0211
Metallic Minerals Section	Dr. G. Anders, Spvr.	W4625 ... 1311
Industrial Minerals Section	S. E. Yundt, Spvr.	W4646 ... 1172
Fuel Minerals	S. Kern, Spvr.	W4629 ... 1882

ONTARIO MINERAL PRODUCTION IN 1980 and 1981

1980 figures show final completion of shipments.
1981 figures are preliminary.

METALLIC MINERALS	Unit	1980 Quantity	1980 Value $	1981 Quantity	1981 Value $
Bismuth	kg	—	—	1,000	8,000
Cadmium	kg	779,133	5,283,454	850,000	4,241,000
Calcium	kg	530,606	3,421,621	566,000	4,234,000
Cobalt	kg	1,685,948	106,900,800	1,569,000	88,096,000
Copper	kg	245,024,420	631,187,524	228,192,000	504,738,000
Gold	g	18,497,499	403,893,082	16,518,000	292,638,000
Iron Ore	tonne	6,569,131	261,998,580	5,267,000	247,213,000
Lead	kg	8,959,858	9,087,822	2,264,000	2,222,000
Magnesium	kg	9,252,035	27,821,844	8,775,000	30,197,000
Nickel	kg	145,607,461	1,154,868,925	127,206,000	1,159,747,000
Platinum Group	g	12,776,000	158,923,378	18,914,000	223,214,000
Selenium	kg	43,091	1,068,915	57,000	1,365,000
Silver	kg	461,027	335,566,122	324,000	130,784,000
Tellurium	kg	4,906	246,560	4,000	67,000
Tin	kg	103,012	1,989,997	86,000	1,698,000
Uranium (U)	kg	4,429,058	464,099,607	4,664,000	467,925,000
Zinc	kg	253,329,025	242,806,654	246,613,000	295,936,000
Total Value, Metallic			$3,809,164,885		$3,454,323,000

NON-METALLICS	Unit	1980 Quantity	1980 Value $	1981 Quantity	1981 Value $
Barite	tonne	.....	500,000	.....	800,000
Gemstones	kg	.....	51,736	.....	60,000
Gypsum	tonne	740,030	5,728,570	688,000	5,353,000
Magnetite	tonne	.....	57,219	.....	.....
Nepheline Syenite	tonne	599,699	16,544,153	606,000	17,834,000
Peat	tonne	7,721	938,881	8,000	787,000
Quartz	tonne	398,759	8,234,895	1,013,000	11,079,000
Salt	tonne	4,871,117	71,400,615	4,963,000	77,121,000
Soapstone, Talc, Pyrophyllite	tonne	.....	1,697,535	.....	2,684,000
Serpentine Filler	tonne	.....	509,822	.....	.....
Sulphur in smelter gas	tonne	521,144	12,534,923	505,000	12,155,000
Sulphur Elemental	tonne	20,511	906,019	22,000	1,200,000
Total Value, Non-Metallics			$119,104,368		$129,073,000

FUELS	Unit	1980 Quantity	1980 Value $	1981 Quantity	1981 Value $
Natural Gas	000 cu.m.	445,232	33,481,424	407,000	34,768,000
Petroleum	cu.m.	93,882	9,787,181	92,000	10,975,000
Total Value, Fuels			$43,268,605		$45,743,000

STRUCTURAL MATERIALS	Unit	1980 Quantity	1980 Value $	1981 Quantity $	1981 Value $
Clay products	.....	.....	58,109,858	.....	69,366,000
Cement	tonne	4,067,347	190,792,978	3,620,000	200,115,000
Lime	tonne	1,683,447	74,389,285	1,711,000	103,500,000
Sand & Gravel	tonne	77,580,254	133,979,765	75,000,000	150,000,000
Stone	tonne	36,008,178	122,956,588	35,000,000	122,000,000
Total Value, Structural Materials			$580,228,474		$644,981,000
GRAND TOTAL FOR ONTARIO			$4,551,766,332		$4,274,120,000

..... Figures not available
Source: Mineral Statistics, Ministry of Natural Resources.

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office. Telephone (416) 965-1062.

Director and The Mine Assessor	K. S. Rachamalla.....	W-4649... 1062
OMEP		
Administrator.....	F. W. Pooley	W-4650... 1062
Evaluator	B. Gordon	W-4651... 1062

ONTARIO CRUDE OIL

Production in cubic metres and barrels

Year	Annual		Cumulative from 1863	
	m^3	bbl	m^3	bbl
1976	98,763	621,508	8,590,226	54,057,445
1977	98,047	617,000	8,688,273	54,674,445
1978	94,417	593,868	8,782,690	52,268,313
1979	92,000	578,663	8,874,690	55,846,976
1980R	93,882	590,500	8,968,572	56,437,476
1981*	92,000	578,663	9,060,572	57,016,139

ONTARIO NATURAL GAS

Production in cubic metres and cubic feet

Year	Annual		Cumulative from 1890	
	000s m^3	000s cf	000s m^3	000s cf
1976	140,438	4,957,616	22,518,772	794,934,893
1977	241,523	8,526,000	22,760,295	803,460,893
1978	356,205	12,574,626	23,116,500	816,035,519
1979	292,000	10,311,883	23,408,500	826,347,402
1980R	445,232	15,723,219	23,853,732	842,070,621
1981*	407,000	14,373,069	24,260,732	856,443,690

* Preliminary R: Revised

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries	Fuel & Electricity	Process Supplies	Total Cost
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980***	41,141	859,763,104	293,003,992	598,111,499	1,750,878,595

*** 44,000 including 3,300 estimate of small sand, gravel and stone industries February 22, 1982.

MINING TAX

Summary of mining tax in years ending March 31

	1981 $ value millions	1982 $ value millions
Mining tax collected	160.5	55.4
Total value of mineral production assessed	2,550.0	1,720.9
Taxes payable per assessments	44.5	88.9
Total additional tax, interest & penalty	1.1	2.2
Total refund of taxes (paid in advance)	.8	4.8
No. of assessments completed	45	48

OMEP DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

In years ending March 31

MNR Regions	No. of Programs 1981	No. of Programs 1982	Total Expenditure ($ million) 1981	Total Expenditure ($ million) 1982	% of Total 1981	% of Total 1982
Northern	46	54	19.8	8.6	58.4	33.1
Northwestern	16	21	5.6	5.7	16.6	21.7
Northeastern	14	23	6.6	5.6	19.4	21.3
North Central	12	25	1.6	5.0	4.9	19.0
Algonquin & Eastern	6	14	.2	1.3	.7	4.9
Total	94	137	$33.9	$26.2	100.0%	100.0%

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	Total Expenditure ($ million) 1981	Total Expenditure ($ million) 1982	% of Total 1981	% of Total 1982
Gold, Silver	29.3	20.3	86.3	77.6
Base Metals	1.2	1.6	3.5	6.2
Industrial Minerals	3.0	4.2	9.0	16.0
Other (uranium, etc)	.4	—	1.2	.2
Total	33.9	26.2	100.0	100.0

DETAILS OF COMPLETED OMEP PROGRAMS: REGIONAL DISTRIBUTION

In years ending March 31

	Number 1981	Number 1982	Total Expenses ($ million) 1981	Total Expenses ($ million) 1982	Eligible Expenses ($ million) 1981	Eligible Expenses ($ million) 1982	Grant/ Tax Credit ($ million) 1981	Grant/ Tax Credit ($ million) 1982	% of Total 1981	% of Total 1982
Northern	18	22	3.6	4.3	3.2	2.9	.8	.73	60.0	58.9
Northwestern	3	9	.4	1.3	.4	1.2	.1	.31	8.0	17.8
Northeastern	12	10	1.8	.8	1.4	.8	.4	.19	27.0	11.0
North Central	5	9	.2	.8	.2	.6	.05	.14	3.0	11.0
Algonquin & Eastern	4	4	.1	.1	.1	.1	.02	.02	2.0	1.3
Total	42	54	6.1	7.3	5.3	5.6	1.37	1.39	100.0	100.0

OUTDOOR RECREATION GROUP

Room W-2340, Main Office. Telephone (416) 965-5661.

Executive Co-ordinator	L. H. Eckel	W-2341 . . . 5661
Secretary	Miss N. Nishi	W-2340 . . . 5661
Administration	P. S. King	W-2311 . . . 5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342 . . . 5661
Program Analyst	S. Fasken	W-2342 . . . 5661
Enforcement Specialist	G. D. Gartley	W-2342 . . . 5661
Librarian	Mrs. S. Louet	W-4540 . . . 5661
Provincial Parks Council, Chairman	F. Gray	(416) 368-8305 Ex. 2574

WILDLIFE BRANCH

Room W-2320, Main Office. Telephone (416) 965-4251.

Branch Director	J. D. Roseborough	W-2327 . . . 4254
Program Development & Audit Section	D. A. Hagan, Spvr.	W-2321 . . . 4251
Habitat Development	D. L. Euler	W-2323 . . . 4251
Moose/Caribou Program	R. A. Stefanski	W-2331 . . . 4251
Upland Game/Waterfowl Program	J. L. Harcus	W-2332 . . . 4251
Deer/Bear Program	H. Smith	W-2330 . . . 4251
Non-game Program	I. E. Bowman	W-2322 . . . 4251
Wetland Habitat Co-ordination	V. A. Glooschenko	W-2303 . . . 7641
Policy Development Section	L. J. Post, Spvr.	W-2306 . . . 7641
Wildlife Policy Specialist	P. Allen	W-2309 . . . 7641
Wildlife Policy Specialist	W. L. Sleeth	W-2307 . . . 7641
Extension Development Section	L. Whistance-Smith, Spvr.	W-2326 . . . 4251
Wildlife Services Section	M. C. Smith, Spvr.	W-2328 . . . 4251
Commercial Wildlife Program	M. Novak	W-2423 . . . 3345
Hunter Education	W. M. McKittrick	W-2333 . . . 4251
Legal Services	M. Chromec	W-2329 . . . 4251
Data System	J. M. Barbowski	W-2325 . . . 4251

Box 50, Maple, Ont. L0J 1E0. Telephone (416) 832-2761.

Wildlife Research Section	C. D. MacInnes, Spvr.	Extension 241
Bio-Electronic Scientist	J. S. Lotimer	Extension 421
Field Studies Scientist	D. R. Voigt	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist	H. G. Lumsden	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasites Scientist	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt.

MOOSE

	RESIDENT			NON-RESIDENT			TOTALS		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950
1979	70,770	529,400	10,110	7,220	54,600	1,580	77,990	584,000	11,690
1980	71,670	426,700	7,670	3,930	25,200	690	75,600	451,900	8,360
1981	66,850	405,500	7,630	3,110	19,400	460	69,960	429,900	8,090

DEER

	RESIDENT			NON-RESIDENT			TOTALS		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600	*15,110
1977	85,840	433,200	13,510	2,720	14,300	*810	88,200	447,500	*14,310
1978	87,950	450,100	13,490	2,860	14,600	*480	90,810	464,700	*13,970
1979	78,440	415,800	13,200	1,560	8,700	*370	80,000	424,500	*13,570
1980	80,280	443,200	9,150	780	4,400	*110	81,060	447,600	9,260

SMALL GAME**

	RESIDENT		NON-RESIDENT	
Year	Hunters	Hunter Days	Hunters	Hunter Days
1974-75	225,840	3,299,000	7,380	52,100
1976-77	242,310	3,388,000	8,530	62,300
1978-79	226,693	2,975,400	8,724	55,100
1979-80	214,550	2,829,600	10,520	65,700
1980-81	220,020	2,781,300	11,170	76,100

SUMMER HUNTING

	RESIDENT	
Year	Hunters	Hunter Days
1972	18,720	369,500
1974	16,380	291,800
1975	16,170	246,800

* Includes deer harvested on moose licences.
** Includes waterfowl.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail Resident	Non-Resident	Total
1973-74	Bear	$ 255,000	$2,336,000	$ 2,591,000
1973-74	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Moose	22,833,000	3,803,000	26,636,000
1979-80	Deer	14,892,000	548,000	15,440,000
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1980-81	Deer	15,887,000	297,000	16,184,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Moose	23,576,000	1,929,000	25,505,000

HUNTING LICENCES SOLD

Year	DEER Resident	DEER Non-Res	MOOSE Resident	MOOSE Non-Res	BEAR Resident	BEAR Non-Res
1977-78	95,114	4,501	74,834	6,392	1,872	8,977
1978-79	97,477	4,453	87,751	7,186	2,672	10,477
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	12,736	13,341

Year	SMALL GAME Resident	SMALL GAME Non-Res	TOTAL Resident	TOTAL Non-Resident	Total
1977	389,014	9,225	569,834	29,095	589,929
1978	399,943	9,651	587,643	31,767	619,410
1979	353,077	11,527	519,601	31,914	551,515
1980-81	383,091	12,783	559,828	29,299	589,127
1981-82	368,770	12,492	550,924	29,677	580,601

LAW ENFORCEMENT

	No. of COs	No. of CO Badges	No of Dep. COs	F & W Contacts	Officer Warnings	F & W Charges
1980-81	226	335	278	318,719	11,117	7,718
1981-82	222	343	331	346,959	12,303	7,595

	Non-F & W Charges	Total Charges	F & W Fines	Other Fines	Total Fines
1980-81	2,924	10,642	$508,467	$119,441	$627,908
1981-82	3,225	10,820	568,989	160,853	729,842

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1980		Totals from Sealing Officers' Reports and Fur Dealers' Returns 1977	1978	1979	1980	1981
$ 34.36	Beaver	136,856	147,556	170,644	209,135	181,383
30.20	Mink	14,856	20,557	21,704	27,377	29,944
26.63	Marten	20,768	38,878	52,169	45,861	45,305
60.87	Otter	7,835	8,592	9,943	11,112	10,952
141.55	Fisher	2,165	2,693	3,300	4,457	4,013
267.71	Lynx	1,151	1,722	1,873	2,485	2,361
126.37	Bobcat	24	16	30	33	21
7.48	Muskrat	435,290	433,163	526,890	605,966	554,894
29.67	Raccoon	44,223	93,178	105,263	116,249	108,164
1.35	Squirrel	5,817	4,180	7,645	16,922	15,836
.89	Weasel	3,576	3,685	5,694	6,100	7,187
71.29	Col'rd Fox	10,131	15,979	19,282	18,854	15,548
29.79	Arctic Fox	101	199	164	176	163
89.33	Timb. Wolf	285	431	381	342	748
54.47	Coyote	2,276	4,394	3,218	3,819	2,646
52.31	Black Bear	283	284	511	818	482
185.36	Wolverine	.....	11	8	9	9
3.05	Skunk	98	210	453	662	438
45.17	Grey Fox	.....	1	3	1	6
488.33	Polar Bear	17	24	21	20	27
Total Pelts		685,752	775,753	929,196	1,070,398	980,127
Total Value		7,998,708	11,284,007	20,234,367	24,407,054	18,965,648

TRAPPER LICENCES, 1981

Registered	3,123 @ $5 =	$15,615
Resident	9.991 @ $5 =	49,955
Farmer, Indian Res.	1,612 @ $0 =	.....
Registered Treaty	3,315 @ $1 =	3,315
Resident Treaty	25 @ $5 =	125
Totals	18,071	$69,010
Raccoon Hunters	3,231 @ $5 =	$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS Non-Fatal	Fatal	Total
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36

Total royalties collected in the 1980-81 season were $1,115,412.

29 PROVINCIAL WILDLIFE AREAS

	Hectares	Acres
Aylmer Provincial Wildlife Area	150	371
Brighton Provincial Wildlife Area	388	959
Bruce Recreation Area	3 925	9,699
Camden Lake Wildlife Management Area	1 052	2,599
Darlington Provincial Park	111	274
Fingal Provincial Wildlife Area	293	724
Gananoque Provincial Wildlife Area	580	1,433
Holiday Beach Provincial Park	198	489
Holland Marsh Provincial Wildlife Area	573	1,416
Hoople Creek Provincial Wildlife Area	105	259
Hullett Provincial Wildlife Area	2 794	6,904
Kolapore Uplands Recreational Area	4 209	10,400
Long Point Provincial Wildlife Area	500	1,235
Luther Marsh Wildlife Area	5 666	14,001
Matchedash Bay Provincial Wildlife Area	225	556
Mountain Provincial Wildlife Area	1 457	3,600
Nonquon River Wildlife Area	1 133	2,800
Point Petre Provincial Wildlife Area	1 276	3,153
Presqu'ile Provincial Park	931	2,300
Puslinch Crown Resource Management Area	138	341
Rankin Wildlife Management Area	3 800	9,390
Rondeau Provincial Park	4 654	11,500
St. Edmunds Provincial Wildlife Area	6 799	16,800
Scugog Island	182	450
Sibbald Point Provincial Park	225	556
Stag Island Wildlife Management Area	17	42
Tiny Marsh Provincial Wildlife Area	931	2,300
Wye Marsh Provincial Wildlife Area	919	2,271

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares	Acres
Aylmer Ponds	43	106
Beverly Swamp	430	1,063
Binbrook	401	991
Calton Swamp	96	237
Christie	340	840
Crooks Hollow	17	42
Hawk Cliff	34	84
Lake St. Lawrence	6 070	14,999
Mud Lake	61	151
Orangeville Reservoir	316	781
Valens	223	551
Waterford Lakes	290	717
Willoughby Marsh	227	561

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office. Telephone (416) 965-5160

Branch Director	N. R. Richards	W-3329...5160
Policy Co-ordinator	W. B. Sargant	W-3329...2745
Secretary	Mrs. M. Naumoff	W-3329...2745
Planning Manager	G. D. Boggs	W-3342...3981
Planning Secretary	Mrs. E. Mason	W-3342...3981
Planning Stenographer	Miss J. Mount	W-3340...3981
Sr. Planner, Research	D. Hallman	W-3344...3981
Sr. Planner, Parks & Heritage Res	M. Garscadden	W-3343...3981
Sr. Planner, Rec. Areas & Resources	K. McCleary	W-3350...3981
Research Planner	D. Driscoll	W-3352...3981
Recreational Areas Planner	R. Phillips	W-3346...3981
Earth Sciences Planner	R. J. Davidson	W-3349...3981
Life Sciences Planner	T. J. Beechey	W-3348...3981
Cultural Resources Heritage Planner	G. Forma	W-3345...3981
Planning Technician	R. Speck	W-3351...3981
Operations Manager	W. Robertson	W-3521...1245
Operations Secretary	Mrs. J. Miller	W-3521...1245
Operations Steno	Ms. R. Coombs	W-3521...1245
Parks Operations Officer	J. D. Barrow	W-3521...1245
Parks Technician	B. van Staalduinen	W-3521...1245
Visitor Services Specialist	K. Vogan	W-3521...1245
Recreational Areas Technician	B. Huis	W-3521...1245
Extension Specialist	F. Bishop	W-3521...1245
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3521...1245
Development Manager	G. Ashenden	W-3320...2745
Development Secretary	Mrs. G. Shaw	W-3320...2745
Development Clerk	Ms. P. A. Naylor	W-3320...2745
Receptionist	Mrs. R. Watkins	W-3320...2745
Senior Landscape Architect	G. Pittenger	W-3320...2745
Landscape Architect	J. Huang	W-3320...2745
Design Engineer	R. H. Lockwood	W-3320...2745
Development Engineer	I. Johnson	W-3320...2745
Environmental Sanitation Co-ord.	S. Cowan	W-3320...2745
Draftsperson	Ms. M. Lehoczky	W-3320...2745
Design Co-ordinator	H. Miles	W-3320...2745
Sanitary Engineer	J. Kolodziej	W-3320...2745
Electrical Designer	J. Konya	W-3320...2745
Architectural Designer	A. Chappelle	W-3320...2745
Mechanical Designer	G. Szepielewicz	W-3320...2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1977	3,276,625	92,611	1,371,039	2.6	3,571,581	10,431,166
1978	2,940,238	82,601	1,324,808	2.3	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.4	3,259,752	**5,161,563
1980	(NR)	76,136	1,319,762	2.4	3,195,477	5,210,712
1981	(NR)	74,199	1,321,494	2.5	3,283,299	****5,948,528

PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Guided Tours	Film Programs	Other Programs	Individual Contacts	Total Contacts
1980	56	43,278	163,877	88,338	196,882	492,375
1981	64	49,478	199,417	105,548	226,354	580,797

NON-PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Visitor Activity Centres	Interpretive Publications Free	Interpretive Publications Priced	Self-Guiding Interpretive Trails	Total Contacts
1980	59	423,191	787,004	71,926	361,663	1,643,784
1981	63	450,199	839,945	78,596	384,426	1,753,166

GROWTH OF PROVINCIAL PARKS — Areas in hectares and acres

Year	Camping Parks	Camping Units	Reserve Areas No.	Reserve Areas ha	Reserve Areas Ac	Provincial Parks No.	Provincial Parks ha	Provincial Parks Ac
1977	97	20,035	107	951,760	2,351,800	126	4,360,546	10,775,144
1978	98	20,176	139	964,334	2,382,913	128	*4,269,268	*10,543,250
1979	97	20,723	134	920,558	2,274,738	128	*4,255,375	*10,514,349
1980	97	20,723	101	949,726	2,347,409	131	4,257,266	10,518,947
			37	***18,167	45,092			
1981	97	20,757	101	949,726	2,347,409	131	4,252,960	10,508,307
			37	18,167	45,092			

*Boundaries of some parks redefined. **Visitation calculated from permit sales.
***Any area acquired by MNR for recreational purposes other than for use as a Provincial Park.
****Includes free day-use visitors.
NR — Vehicle entries no longer recorded.

131 PROVINCIAL PARKS IN OPERATION IN 1981

Region, District Provincial Park	Area Hectares	Acres	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Pakwash	631	1,558	60	2,244	3,297
KENORA					
Rushing River	190	469	192	21,298	51,266
Sioux Narrows	129	320	71	5,349	9,257
FORT FRANCES					
Caliper Lake	134	331	92	6,976	12,119
Lake of the Woods	1,097	2,711	100	6,291	12,795
DRYDEN					
Aaron	70	173	98	7,214	9,638
Blue Lake	354	874	188	15,030	36,911
SIOUX LOOKOUT					
Ojibway	2,630	6,500	50	4,317	4,316
IGNACE					
Sandbar Lake	3,157	7,800	75	9,087	11,934
Total, 9 Parks	8,392	20,736	926	77,806	151,533
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico (Dawson Trail)	475,819	1,175,773	133	4,440	9,636
THUNDER BAY					
Inwood	33	82	85	5,460	5,557
Kakabeka Falls	420	1,039	156	27,338	38,912
Middle Falls	4	11	25	1,990	2,292
Sibley	24,435	60,380	217	12,573	27,659
NIPIGON					
Lake Nipigon	1,458	3,604	80	3,400	5,181
GERALDTON					
Klotz Lake	119	293	30	1,933	1,933
MacLeod	74	183	85	4,618	12,533
TERRACE BAY					
Neys	3,445	8,512	146	17,568	26,698
Rainbow Falls	575	1,422	230	19,400	23,430
Total, 10 Parks	506,382	1,251,299	1,187	98,720	153,831
NORTHERN REGION					
HEARST					
Fushimi Lake	5,294	13,081	39	3,828	8,911
Nagagamisis	8,131	20,092	165	5,193	13,829
MOOSONEE					
Polar Bear	2,408,700	5,952,018	—	—	—
Tidewater	980	2,421	36	1,337	1,337
KAPUSKASING					
Remi Lake	2,964	7,325	122	5,993	13,465
COCHRANE					
Greenwater	5,350	13,220	104	4,452	9,319
TIMMINS					
Kettle Lakes	1,261	3,116	165	9,176	28,679

Region, District Provincial Park	Area Hectares	 Acres	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE					
Esker Lakes	3,237	8,000	136	4,715	13,064
Kap-Kig-Iwan	276	681	64	4,315	7,204
CHAPLEAU					
Five Mile Lake	456	1,128	43	2,917	4,059
Ivanhoe Lake	1,589	3,926	149	4,652	13,468
Missinaibi Lake	44,061	108,877	50	2,681	9,126
The Shoals	11,198	27,670	60	3,776	5,243
Wakami Lake	8,806	21,760	68	2,946	12,919
Total, 14 Parks	2,502,303	6,183,315	1,201	55,981	140,623
NORTHEASTERN REGION					
WAWA					
Lake Superior	155,659	384,641	307	27,314	39,628
Obatanga	9,409	23,250	132	12,727	18,246
White Lake	1,726	4,265	183	16,291	27,057
SAULT STE. MARIE					
Batchawana	169	418	—	—	—
Pancake Bay	466	1,151	340	31,711	48,518
BLIND RIVER					
Mississagi	2,883	7,124	101	5,113	15,736
ESPANOLA					
Chutes	108	268	95	18,188	24,017
SUDBURY					
Fairbank	105	260	160	7,546	18,782
Halfway Lake	4,730	11,688	215	12,613	28,269
Killarney	34,126	84,328	122	7,836	30,345
Windy Lake	118	292	83	4,549	13,547
TEMAGAMI					
Finlayson Point	37	92	114	7,263	15,735
NORTH BAY					
Antoine	12	30	30	N/A	185
Marten River	418	1,034	216	10,807	26,575
Restoule	662	1,635	278	8,342	36,485
Samuel de Champlain	2,349	5,805	216	10,518	21,821
Total, 16 Parks	212,977	526,281	2,592	180,818	364,946
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	2,554	6,310	520	21,190	58,796
Killbear	1,756	4,340	885	37,041	168,527
Oastler Lake	32	78	148	12,571	33,102
Sturgeon Bay	14	35	82	5,328	16,449
BRACEBRIDGE					
Arrowhead	963	2,379	389	25,830	74,669
Mikisew	131	324	265	11,798	30,729
BANCROFT					
Lake St. Peter	25	62	62	2,929	8,235
Petroglyphs	1,555	3,842	—	—	—
Silent Lake	844	2,085	167	11,803	23,975
ALGONQUIN PARK					
Algonquin	765,345	1,891,206	1,390	81,357	218,349
Driftwood	265	655	77	4,944	9,927

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
PEMBROKE					
Bonnechere	113	280	113	5,226	18,160
Carson Lake	13	32	43	4,881	4,881
Total, 13 Parks	773,610	1,911,628	4,141	224,898	665,799
EASTERN REGION					
CARLETON PLACE					
Fitzroy	185	457	248	12,480	24,983
Murphys Point	1,240	3,061	176	7,605	17,886
Rideau River	98	242	185	8,321	16,710
Silver Lake	43	107	151	9,420	23,443
CORNWALL					
Carillon	1,417	3,501	416	14,825	31,388
South Nation	5	13	—	—	—
BROCKVILLE					
Charleston Lake	902	2,230	242	13,484	43,605
TWEED					
Bon Echo	6,644	16,417	500	25,232	88,506
Sharbot Lake	69	170	190	8,612	23,303
NAPANEE					
Ferris	198	490	163	3,719	7,155
Lake on the Mountain	104	256	—	—	—
North Beach	89	221	—	—	—
Outlet Beach, Sandbanks	1,002	2,477	433	31,742	109,134
Presqu'ile	937	2,315	394	31,430	70,762
Total, 15 Parks	12,933	31,957	3,098	166,870	456,875
CENTRAL REGION					
LINDSAY					
Balsam Lake	449	1,109	483	27,732	81,238
Darlington	209	516	357	30,111	66,633
Emily	83	206	299	17,411	51,123
Mark S. Burnham	39	97	—	—	—
Serpent Mounds	56	138	113	12,413	33,143
HURONIA					
Awenda	1,552	3,835	150	11,444	26,845
Bass Lake	39	96	92	13,279	25,755
Devil's Glen	6	14	45	3,671	5,302
Earl Rowe	300	742	555	30,210	73,891
Mara	45	112	106	7,149	17,917
McRae Point	138	340	203	13,070	32,827
Six Mile Lake	94	233	192	18,203	41,075
Springwater	47	117	—	—	—
Wasaga Beach	1,545	3,817	—	—	—
MAPLE					
Sibbald Point	225	556	656	39,191	92,740
CAMBRIDGE					
Bronte Creek	640	1,581	—	—	—
NIAGARA					
Rock Point	98	242	128	14,119	16,260
Total, 17 Parks	5,565	13,751	3,377	238,003	564,749

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION					
SIMCOE					
Long Point	141	349	265	22,335	73,634
Selkirk	73	180	145	6,387	18,075
Turkey Point	350	864	473	11,139	24,633
AYLMER					
Iroquois Beach	227	560	232	17,378	37,111
John E. Pearce	68	168	—	—	—
Port Bruce	5	13	—	—	—
CHATHAM					
Holiday Beach	92	227	45	4,060	8,633
Ipperwash	56	138	263	19,963	72,881
Peche Island	153	379	—	—	—
Pinery	2,542	6,281	1,250	77,672	249,965
Rondeau	4,816	11,900	226	18,436	57,299
Wheatley	241	596	210	14,171	29,300
WINGHAM					
Point Farms	308	760	200	13,303	38,831
OWEN SOUND					
Craigleith	66	162	172	21,573	45,540
Cyprus Lake	669	1,654	242	23,908	56,611
Fathom Five	9,977	24,653	—	—	—
Inverhuron	289	713	—	—	—
MacGregor Point	1,001	2,473	360	15,268	39,188
Sauble Falls	20	50	152	12,805	33,242
Total, 19 Parks	21,094	52,120	4,235	278,398	784,943
WATERWAY PARKS					
Chapleau-Nemegosenda River	8,159	20,160	(Chapleau)	.....	.....
Lady Evelyn	2,464	6,088	(Temagami)	.....	.....
Mattawa River	3,258	8,050	(North Bay)	.....	.....
Mississagi River	19,814	48,960	(Blind River, Espanola, Chapleau)	.....	.....
Winisk	174,000	429,000	(Geraldton)	.....	.....
Total, 5 Parks	207,695	512,258	.....	.....	.....
NATURE RESERVE PARKS					
Cavern Lake	189	467	(Thunder Bay)	.....	.....
East Sister Island	53	131	(Chatham)	.....	.....
Gibson River	168	415	(Huronia)	.....	.....
Limestone Island	450	1,112	(Parry Sound)	.....	.....
Matawatchan	65	160	(Pembroke)	.....	.....
Montreal River	44	108	(Sault Ste. Marie)		.....
Ojibway Prairie	65	161	(Chatham)	.....	.....
Ouimet Canyon	777	1,920	(Thunder Bay)	.....	.....
Peters Woods	34	83	(Lindsay)	.....	.....
Shreiber Channel	13	32	(Thunder Bay)	.....	.....
Porphyry Island	107	264	(Thunder Bay)	.....	.....
Trillium Woods	10	25	(Aylmer)	.....	.....
Waubashene Beaches	34	84	(Huronia)	.....	.....
Total, 13 Parks	2,009	4,962	.....	.....	.....
TOTAL, 131 Parks	4,252,960	10,508,307	20,757	1,321,494	3,283,299

101 PROVINCIAL PARK RESERVE AREAS IN 1981

Region, District Reserve Area	Area Hectares	 Acres
NORTHWESTERN REGION		
RED LAKE		
Berens Dowling	30,845	76,218
Lund Lake	2,851	7,045
Stout Lake	218,192	539,152
Telescope Lake	5,962	14,732
Woodland Caribou	360,806	891,551
KENORA		
Pipestone Peninsula	1,429	3,530
Pistol Lake	1,629	4,025
FORT FRANCES		
Pow-Wow Grounds	700	1,730
Sand Point Island	889	2,197
Total, 9 Areas	623,303	1,540,180
NORTH CENTRAL REGION		
ATIKOKAN		
White Otter Lake	24,281	60,000
THUNDER BAY		
Arrow Lake	40	100
Arrow Lake	405	*1,000
Arrowhead Peninsula	344	850
Inwood	405	1,000
Kashabowie	2,064	5,100
La Verendrye W.R.	1,311	3,240
Middle Falls	961	2,374
Silver Falls	3,561	8,800
NIPIGON		
Cypress River	240	593
Gravel River	324	800
Humboldt Bay	29,542	73,000
Kopka Lake	4,047	10,000
Partridge Lake	2,631	6,500
GERALDTON		
Esnagami Lake	23,472	58,000
Lukinto Lake	911	2,250
Purgatory Chutes	40	100
TERRACE BAY		
Slate Island	3,963	9,793
Total, 18 Areas	98,542	243,500
NORTHERN REGION		
HEARST		
Nagagami Lake	1,481	3,660
KAPUSKASING		
Missinaibi W.R.	38,046	94,013

* Provincial Park not in operation.

Regk. I, District Reserve Area	Area Hectares	Acres
COCHRANE		
Long Point Peninsula	2,552	6,304
Otter Rapids	197	486
Pierre Montreuil	17,032	42,088
TIMMINS		
Dana-Jowsey Lakes	2,547	6,294
KIRKLAND LAKE		
McCann	259	640
CHAPLEAU		
Missinaibi Lake	1,481	3,660
The Shoals	6,227	15,387
MOOSONEE		
Kwataboahenan River	94	232
Total, 11 Areas	70,422	174,014
NORTHEASTERN REGION		
WAWA		
Kakakiwibik	23,829	58,881
Pothole	352	870
SAULT STE. MARIE		
Marks Bay	104	258
BLIND RIVER		
Aubrey Falls	6,880	17,000
Mashagami	259	640
Mississagi	39,255	97,000
ESPANOLA		
La Cloche	4,969	12,278
Misery Bay	697	1,743
SUDBURY		
Mashkinonje	940	*2,322
Wanapitae Lake	2,790	6,890
TEMAGAMI		
W.B. Greenwood	9,308	23,000
NORTH BAY		
Restoule	467	1,155
South Bay	1,604	3,963
Total, 14 Areas	91,454	226,000
ALGONQUIN REGION		
BRACEBRIDGE		
Bigwind Lake	1,878	4,638
Chetwynd	85	210
Hardy Lake	602	1,488
Ragged Falls	139	344
MINDEN		
Red Pine Lake	3,173	7,837
BANCROFT		
Kawartha Highlands	1,587	3,921
McKenzie Lake	1,539	3,802
PEMBROKE		
Centennial Lake	3,833	9,468
Madawaska River	1,233	3,044
Round Lake	124	307

*Provincial Park not in operation.

Region, District Reserve Area	Area Hectares	 Acres
PARRY SOUND		
Blackstone Harbour	12,086	29,851
Magnetawan W.R.	9,256	23,530
McDonald Bay	578	1,426
O'Donnell Point	786	1,943
Round Lake	11,241	27,764
Shawanaga Basin	1,287	3,179
Total, 16 Areas	49,427	122,752
EASTERN REGION		
BROCKVILLE		
Blue Mountain	726	1,795
CARLETON PLACE		
Kilmarnock	26	63
Mouth of Tay	64	159
TWEED		
Baudner Property	35	86
NAPANEE		
Casey Point	33	81
Frontenac	5,130	*12,676
Total, 6 Areas	6,014	14,860
CENTRAL REGION		
HURONIA		
Bass Lake	185	457
Boyne Valley (Primrose)	1,073	2,652
Couchiching	44	108
Devil's Glen	55	135
Giant's Tomb	479	1,184
Lavender Falls	202	499
Matchedash	2,509	6,200
Mono Cliffs	618	1,527
Nottawasaga Lookout	219	540
Scott's Falls	484	1,196
MAPLE		
Credit Forks	205	507
Duclos Point	137	338
CAMBRIDGE		
Cranberry Bog	9	20
LINDSAY		
Harris Island	75	186
Indian Point	857	2,118
Kendal Recreation Area	349	863
Quackenbush Site	39	97
Scugog Island	168	415
Wolf Island	330	814
NIAGARA		
James N. Allen	113	278
Short Hills	617	1,523
Total, 21 Areas	8,767	21,657

* Provincial Park not in operation.

Region, District Reserve Area	Area Hectares	 Acres
SOUTHWESTERN REGION		
AYLMER		
Kamoka	501	1,237
CHATHAM		
Fish Point	110	273
Lighthouse Point	97	246
OWEN SOUND		
Black Creek	285	704
Cyprus Lake	287	709
Hope Bay	517	1,277
Total, 6 Areas	1,797	4,446
TOTAL, 101 Areas	949,726	2,347,409

* 37 PROVINCIAL PARK SPECIAL AREAS IN 1981

Region, District Special Area	Area Hectares	 Acres
NORTH CENTRAL REGION		
ATIKOKAN		
Warner Lake	302	745
NIPIGON		
Gravel Bay	101	250
TERRACE BAY		
Steel River	1,093	2,700
Total, 3 Areas	1,496	3,695
NORTHERN REGION		
HEARST		
Rogers	611	1,510
Total, 1 Area	611	1,510
ALGONQUIN REGION		
MINDEN		
Buckhorn	385	950
Gull River	27	67
PARRY SOUND		
C.N.R. Line	269	664
Franklin Islands	7	18
Total, 4 Areas	688	1,699
EASTERN REGION		
CORNWALL		
Cornwall Recreation Area	83	204
Total, 1 Area	83	204
CENTRAL REGION		
HURONIA		
Allandale	80	198
Gloucester Pool	36	89
Minesing Swamp	450	1,112
MAPLE		
Cheltenham Property	100	246
Grange Property	142	350
CAMBRIDGE		
Burlington Parkway Property	26	65
Yaremko-Ridley	64	160
Total, 7 Areas	898	2,220

* Any area initially acquired by the M.N.R. for recreational park purposes other than for use as a Provincial Park.

Region, District Special Area	Area Hectares	 Acres
SOUTHWESTERN REGION		
AYLMER		
East-Zorra Trail	24	60
CHATHAM		
Fox Property	7	18
Tremblay Beach	62	154
WINGHAM		
Stinsin Estate	48	119
OWEN SOUND		
Beaver Valley Lowlands	540	1,334
Beaver Valley Ski Area	297	735
Cape Chin	437	1,285
Colpoys Bay	213	523
Dorcas Bay	68	168
Dunks Bay	16	39
Dyer Bay	79	194
Eugenia Lake	4	10
Hoggs Falls	82	204
Johnston Harbour	3,157	7,801
Kolapore Uplands	1,945	4,805
Lions Head Lookout	1	3
Lions Head Recreation Area	494	1,221
Meaford Lookout	404	997
Pretty River Valley	879	2,171
Spring Creek	2,104	5,200
Umbrella Lake	3,530	8,723
Total, 21 Areas	14,391	35,764
TOTAL, 37 Areas	18,167	45,092

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

Room W-2354, Main Office. Telelphone (416) 965-7883.

Branch Director	A. S. Holder	W-2347 . . . 5947
Client Services Section	G. R. Whitney, Mgr.	W-2349 . . . 7885
Co-ordinator, Policy Development	F. P. Maher	W-2346 . . . 7885
Co-ordinator, Public Involvement	C. I. Goddard	W-2350 . . . 7885
Extension Specialist	A. A. Wainio	W-2353 . . . 7885
Data Systems Biologist	W. G. Simpson	W-2446 . . . 7885
Data & Information Biologist	L. Greig	W-2443 . . . 7885
Economist	N. Bedi	W-2442 . . . 7885
Commercial Development Co-ordinator	J. C. Tilt	W-2442 . . . 7885
SPOF Policy & Implementation Co-ord.	J. A. Cherry	W-2344 . . . 7885
Fish Culture Section	J. M. Byrne, Spvr.	W-2451 . . . 7886
Production Biologist	J. D. Hynes	W-2449 . . . 7886
Fish Health Biologist	A. Sippel	W-2453 . . . 7886
Fish Nutrition Specialist	C. Y. Cho	(519) 824-4120-2212
Fish Culture Operation Co-ordinator	C. C. Mack	W-2452 . . . 7886
Fish Culture Systems Specialist	D. Farquhar	W-2454 . . . 7886
Environmental Dynamics Section	D. P. Dodge, Spvr.	W-4422 . . . 7887
Habitat Enhancement Biologist	R. M. Biette	W-4422 . . . 7887
Habitat Protection Biologist	J. T. Allin	W-4422 . . . 7887
Aquatic Habitat Inventory Biologist	G. A. Goodchild	W-4422 . . . 7887
Inventory Data Systems & Lab Spec.	G. E. Gale	W-4422 . . . 7887
Aquatic Habitat Acidification Spec.	G. L. Beggs	W-2344 . . . 7887

Box 50, Maple, Ontario L0J 1E0. Telephone (416) 832-2761.

Fisheries Research Section	A. H. Lawrie, Spvr.	Ext. 251
Age/Growth Studies & Envir. Stress	J. Casselman	251
Brook Trout Studies	J. H. Fraser	251
Community Dynamics	D. O. Evans	251
Limnology	A. M. McCombie	251
Stocks Assessment & Genetics	P. Ihssen	251
Harkness Memorial Lab (winter)	J. A. MacLean	251
Harkness Memorial Lab (summer)	J. A. MacLean	(705) 637-2103
Systems Ecology	B. Shuter	251

RESEARCH STATIONS

Fisheries Research Section	R. A. Ryder	(807) 683-6232
Box 5000, Thunder Bay, Ont. P7C 5G6	P. J. Colby	475-1635
Sault Ste. Marie Research Station	W. H. Kwain	(705) 942-1411
875 Queen St. E., S.S. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Laboratory	B. Henderson	(705) 859-3137
R.R. 1, Tehkummah, Ont. P0P 2C0	J. A. Reckahn	3137
Wheatley Fisheries Research Station	S. J. Nepszy	(519) 825-4171
R.R. 2, Wheatley, Ont. N0P 2P0	J. H. Leach	4171
Glenora Fisheries Research Station	W. J. Christie	(613) 476-2400
R.R. 4, Picton, Ont. K0K 2T0	D. A. Hurley	2400
Harkness Lab (Algonquin Park)	Dr. J. A. MacLean	(705) 637-2103
Box 110, Whitney, Ont. K0J 2M0		

FISH PLANTINGS — Numbers in 000s of Fish (F) and Eggs (E) Stocked from Ontario Fish Culture Stations

Species		1977	1978	1979	1980	1981
Bass, Largemouth	E	36	.....	.....	.....	.....
	F	77	112	.....	.....	.....
Bass, Smallmouth	E	59	.....	.....	.....	.....
	F	184	185	79	65	160
Muskellunge	E	.....	.....	.....	.....	.....
	F	949	1,271	1,490	1,120	791
Salmon, Chinook	E	.....	.....	.....	.....	.....
	F	.....	393	147	18	12
Salmon, Coho	E	.....	.....	.....	.....	.....
	F	209	201	286	418	224
Splake	E	.....	377	.....	76	.....
	F	952	185	800	798	684
Trout, Aurora	E	.....	.....	.....	.....	.....
	F	.....	38	21	17	30
Trout, Brook	E	.....	380	18	.....	860
	F	1,854	1,078	682	1,260	1,459
Trout, Lake	E	120	120	6	5	.....
	F	2,088	1,536	1,478	1,928	2,636
Trout, Rainbow	E	350	.....	.....	.....	.....
	F	1,023	1,057	992	1,347	395
Walleye	E	7,850	.....	13,450	.....	.....
	F	10	8	10	472	29
Total		15,763	6,946	19,461	7,523	7,250

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1977	1,056	1,605	1,731	98	4,490
1978	1,048	1,679	1,832	99	4,658
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	149	4,762

ANGLING LICENCES

Year	Number Sold to Non-Residents
1977	630,120
1978	654,672
1979	673,925
1980	628,988
1981	673,334

FISH STOCKING from Ontario Provincial Fish Culture Stations
For the fiscal year ending March 31, 1982

(E — Eggs)

Station	Species	Quantity	Weight (lbs)	Weight (kg)
Chatsworth	Lake Trout	39,146	2,234	1,057
	Splake	592,593	67,736	32,107
Deer Lake	Rainbow Trout	27,929	6,501	3,081
	Lake Trout	191,872	3,301	1,565
	Muskellunge	791,370	252	119
Dorion	Brook Trout	860,000E	.....	.....
		284,032	9,163	4,343
	Lake Trout	1,242,233	39,193	18,577
	Splake	1,440	2,315	1,097
Hill Lake	Aurora Trout	30,000	1,247	566
	Brook Trout	326,100	13,555	6,154
	Lake Trout	105,250	7,535	3,270
Normandale	Rainbow Trout	131,659	23,596	11,185
North Bay	Brook Trout	141,287	2,707	1,283
	Lake Trout	68,919	2,769	1,313
Pembroke	Brook Trout	148,420	3,326	1,576
	Lake Trout	223,560	6,160	2,920
Ringwood	Coho Salmon	224,123	8,309	3,938
	Chinook Salmon	11,997	62	29
Sandfield	Brook Trout	78,975	6,508	3,085
	Lake Trout	58,892	1,754	831
	Splake	89,829	3,902	1,850
	Bass Smallmouth	160,008	795	377
Skeleton Lake	Rainbow Trout	136,835	36,074	17,099
	Brook Trout	200,000	8,876	4,207
	Lake Trout	48,600	1,274	604
Tarentorus	Rainbow Trout	74,170	7,690	3,645
	Brook Trout	100,173	3,342	1,584
	Lake Trout	388,915	9,743	4,618
White Lake	Rainbow Trout	24,800	4,583	2,172
	Brook Trout	132,900	12,246	5,805
	Lake Trout	200,380	4,660	2,209
	Walleye	28,780	128	61
Westport	Brook Trout	47,048	9,579	4,540
	Lake Trout	68,079	3,938	1,867

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY — 1981

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
MEN EMPLOYED	Number	275	739	18	131
FISHING BOATS					
12.2 m and over	Number	2	142	—	27
(40' and over)	kg	25,452	3,930,516	—	662,661
	(Tons)	28	4,324	—	729
	Value $	60,000	17,582,899	—	2,473,358
6.1 m to 11.9 m	Number	7	40	8	10
(20' to 39')	Value $	878,840	637,250	63,000	163,500
Under 6.1 m	Number	182	52	7	6
(under 20')	Value $	236,692	73,045	11,000	4,350
FISHING GEAR					
Gill Nets	Metres	1,184,713	7,469,009	—	1,223,060
	(Yards)	1,303,315	8,216,731	—	1,345,500
	Value $	655,407	5,321,245	—	1,073,622
Pound Nets	Number	—	31	75	—
	Value $	—	73,000	100,000	—
Trap Nets	Number	79	190	129	118
	Value $	92,650	456,000	92,000	230,941
Hoop Nets	Number	815	176	30	3
	Value $	272,575	72,400	9,000	3,600
Seine Nets	Metres	2,502	3,030	1,454	—
	(Yards)	2,752	3,333	1,600	—
	Value	21,200	30,100	5,900	—
Night Lines	Number	41,006	11,137	5,400	—
	Value $	25,800	8,675	3,130	—
Dip Nets	Number	16	7	—	—
	Value $	160	106	—	—
Trawl Nets	Number	—	282	—	4
	Value $	—	523,050	—	10,000
Trammel Nets	Metres	—	—	—	—
	(Yards)	—	—	—	—
	Value $	—	—	—	—
SHORE INSTALLATIONS					
Freezers & Icehouses	Number	22	30	5	31
	Value $	200,950	2,287,539	56,000	426,850
Piers & Wharves	Number	33	46	7	10
	Value $	110,650	482,400	27,500	106,050
Net Shcds.	Number	86	127	11	31
	Value $	271,879	1,811,382	99,000	908,000
Miscellaneous	Value $	12,950	8,195	—	—
NEW CAPITAL INVESTMENT					
Engines	Value $	57,520	294,350	—	61,705
Hulls	Value $	262,840	1,061,500	—	220,212
Fishing Gear	Value $	176,126	1,045,535	3,188	253,655
Wheelhouse Eqpmt.	Value $	18,871	329,156	—	45,819
Other Equipment	Value $	975	5,895	—	6,000
TOTAL NEW CAPITAL		$ 516,332	$ 2,736,436	3,188	587,391
TOTAL INVESTMENT		$3,356,085	$32,103,722	$469,718	$5,987,662

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
96	59	187	466	72	2,043
20	14	21	11	—	237
259,065	214,524	409,959	199,071	—	5,701,248
285	236	451	219	—	6,272
876,000	503,358	1,482,100	430,000	—	23,407,715
24	10	39	78	5	221
214,000	27,800	529,647	378,922	20,000	2,912,959
43	20	72	239	43	664
38,600	21,700	102,750	356,648	49,733	894,518
792,466	319,786	802,947	782,436	41,178	12,615,595
871,800	351,800	883,330	860,766	45,300	13,878,542
564,175	208,110	591,013	337,753	51,725	8,803,050
11	17	8	18	—	160
10,900	28,500	12,000	13,000	—	237,400
9	16	12	121	15	689
13,000	22,300	18,200	130,436	13,300	1,068,827
1	—	2	79	324	1,430
800	—	2,000	20,150	92,350	472,875
—	—	—	—	711	7,697
—	—	—	—	782	8,467
—	—	—	—	3,350	60,550
—	—	—	350	4,100	61,993
—	—	—	400	1,585	39,590
3	3	3	45	3	80
26	80	45	890	30	1,337
—	—	22	1	—	309
—	—	31,800	800	—	565,650
—	—	—	—	1,454	1,454
—	—	—	—	1,600	1,600
—	—	—	—	2,900	2,900
30	18	45	95	15	291
123,000	227,200	1,677,625	562,053	9,700	5,570,917
25	12	42	93	7	275
50,850	48,158	128,650	166,578	17,600	1,138,436
36	20	63	86	16	476
169,850	114,800	385,600	152,260	38,900	3,951,671
—	—	—	79,375	—	100,520
15,674	25,670	80,950	97,103	14,725	647,697
36,250	1,500	691,820	120,570	11,195	2,405,887
34,966	91,282	136,384	79,044	18,660	1,838,840
8,845	17,944	93,874	10,542	—	525,051
—	—	3,527	1,245	12,000	29,642
$ 95,735	$ 136,396	$1,006,555	$ 308,504	$ 56,580	$ 5,447,117
$2,156,936	$1,338,402	$5,967,985	$2,937,769	$357,753	$54,676,032

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in kilograms and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	27	16,936	2,653	—	2
Bullhead	139,890	30,453	826	38	944
Burbot (Ling)	—	1	—	150	4,655
Carp	73,002	14,673	34,510	13,833	1,951
Catfish	14,049	45,465	21,318	28,598	342
Chub (Deepwater Cisco)	—	2	—	219,149	56,678
Crappie	12,523	1,677	—	—	—
Eel	109,098	108	—	—	—
Lake Herring	2,420	4	—	3,169	12,448
Lake Trout	46	1,771	—	26,593	768
Lake Whitefish	762	10,659	—	593,931	105,017
Freshwater Drum	412	212,470	10,764	32,323	—
Northern Pike	16,305	13,614	1,231	120	3,555
Pacific Salmon	25	14,824	—	7,881	488
Rock Bass	8,785	14,093	795	159	115
Round Whitefish	—	—	—	4,208	8,489
Sauger	—	—	—	—	243
Shad	309	—	23	2,972	—
Smelt	33,807	13,790,345	—	*77,207	—
Splake	—	9	—	—	55,035
Sturgeon	301	454	—	1,943	315
Sucker (Mullet)	4,655	14,923	11,365	49,266	27,926
Sunfish	59,721	32,442	—	—	—
White Bass	2,420	881,073	5,126	5,940	5
White Perch	44,746	—	—	—	—
Yellow Perch	562,775	3,795,402	971	246,499	49,058
Yellow Pickerel	1,450	955,655	—	123,922	10,991
Animal Food	75,542	486,585	3,201	22,823	7,410
Total Landings (Kg)	1,163,070	20,333,638	92,783	1,460,724	346,435
Total Value ($)	$1,929,556	$20,261,102	$53,323	$3,254,913	$669,111

*Smelt taken on Experimental Trawl Permit

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in kilograms and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (Kg)	Total Value ($)
—	—	—	—	19,618	4,377
—	—	6,072	55,613	233,836	214,610
1,793	4,491	169,418	994	181,502	8,321
1,611	—	—	68,836	208,416	71,141
64	—	—	6,959	116,795	129,267
181	92,168	25,755	—	393,933	659,803
—	—	—	6,583	20,783	31,692
—	—	—	2,580	111,786	259,916
4,367	1,327,191	106,238	—	1,455,837	1,227,505
2,619	176,387	18,473	—	226,657	512,543
120,104	172,506	745,272	—	1,748,251	3,085,563
—	—	191	763	256,923	46,517
12,678	2,543	246,145	14	296,205	357,955
9,288	5,864	—	36	38,406	74,346
199	—	17,552	1,698	43,396	70,967
1,901	42,432	—	—	57,030	53,399
—	4	19,767	—	20,014	28,742
—	—	—	—	3,304	1,010
—	42,319	—	—	13,943,678	3,323,354
1,742	—	—	—	56,786	141,473
3,134	174	10,601	3,475	20,397	125,948
25,676	110,402	357,790	4,223	606,226	173,842
—	—	—	33,791	125,954	107,474
50	—	1,232	96	895,942	1,330,439
—	—	—	2,688	47,434	30,579
51,509	61,318	1,725	14,562	4,783,819	14,445,865
20,232	298	363,092	40	1,475,680	5,228,464
56,722	22,182	64,839	30,493	769,797	21,847
313,870	2,060,279	2,154,162	233,444	28,158,405	
$525,036	$2,245,797	$2,641,250	$185,871		$31,766,959

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in pounds and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	60	37,221	5,830	—	5
Bullhead	307,450	66,929	1,816	84	2,075
Burbot (Ling)	—	2	—	330	10,231
Carp	16[illegible]14	32,248	75,846	30,403	4,287
Catfish	30[illegible]76	99,922	46,853	62,852	751
Chub (Deepwater Cisco)	—	5	—	481,646	124,567
Crappie	27,523	3,686	—	—	—
Eel	239,776	237	—	—	—
Lake Herring	5,318	8	—	6,964	27,359
Lake Trout	100	3,893	—	58,446	1,687
Lake Whitefish	1,695	23,427	—	1,305,342	230,807
Freshwater Drum	906	466,967	23,657	71,039	—
Northern Pike	35,835	29,920	2,705	263	7,812
Pacific Salmon	55	32,581	—	17,321	1,072
Rock Bass	19,308	30,974	1,747	350	253
Round Whitefish	—	—	—	9,248	18,657
Sauger	—	—	—	—	535
Shad	678	—	50	6,531	—
Smelt	74,301	30,308,451	—	*169,685	—
Splake	—	20	—	—	120,956
Sturgeon	661	998	—	4,270	693
Sucker (Mullet)	10,230	32,797	24,979	108,276	61,375
Sunfish	131,255	71,301	—	—	—
White Bass	5,319	1,936,423	11,265	13,054	10
White Perch	98,343	—	—	—	—
Yellow Perch	1,236,867	8,341,542	2,135	541,757	107,819
Yellow Pickerel	3,187	2,100,341	—	272,356	24,157
Animal Food	166,026	1,069,417	7,035	50,160	16,286
Total Landings (Kg)	2,556,213	44,699,310	203,918	3,210,377	761,394
Total Value ($)	$1,929,556	$20,261,102	$53,323	$3,254,913	$669,111

*Smelt taken on Experimental Trawl Permit
**Rock Bass & Crappie Combined
***Average prices used for value

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in pounds and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (Lbs.)	Total Value ($)
—	—	—	—	43,116	4,377
—	—	13 344	122,227	513,925	214,610
3,941	9,871	372,347	2,184	398,906	8,321
3,540	—	—	151,288	458,056	71,141
140	—	—	15,294	256,688	129,267
398	202,567	56,605	—	865,788	659,803
—	—	—	14,467	45,676	31,692
—	—	—	5,670	245,683	259,916
9,597	2,916,904	233,489	—	3,199,639	1,227,505
5,755	387,664	40,601	—	498,146	512,543
263,965	379,133	1,637,960	—	3,842,329	3,085,563
—	—	420	1,676	564,665	46,517
27,864	5,589	540,979	30	650,997	357,955
20,414	12,887	—	80	84,410	74,346
438	—	**38,375	3,732	95,377	70,967
4,178	93,258	—	—	125,341	53,399
—	9	43,444	—	43,988	28,742
—	—	—	—	7,259	1,010
—	93,008	—	—	30,645,445	3,323,354
3,829	—	—	—	124,805	141,473
6,887	383	23,298	7,638	44,828	125,948
56,430	242,642	786,352	9,282	1,332,363	173,842
—	—	—	74,265	276,821	107,474
109	—	2,707	210	1,969,097	1,330,439
—	—	—	5,908	104,251	30,579
113,206	134,765	3,791	32,004	10,513,886	14,445,865
44,465	655	798,005	88	3,243,254	5,228,464
124,664	48,751	142,503	67,018	1,691,860	21,847
689,820	4,528,086	4,734,420	513,061	61,886,599	
$526,036	$2,245,797 ***	$2,641,250 ***	$185,871		$31,766,959

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Species	1977	1978	1979	1980	1981	Value 1981
Bowfin	18	16	14	9	20	$ 4
Bullhead	281	222	236	241	234	215
Burbot (Ling)	208	173	129	108	182	8
Carp	216	113	180	121	208	71
Catfish	65	86	96	85	117	129
Chub (Deepwater Cisco)	602	558	498	446	394	660
Pacific Salmon	2	3	21	17	38	74
Eel	189	232	226	168	112	260
Freshwater Drum	184	166	164	179	257	47
Goldeye	.....	.....	.....	.....	.....	.....
Lake Herring (Cisco)	863	929	990	1,464	1,456	1,228
Lake Trout	112	165	165	278	227	513
Lake Whitefish	1,445	1,692	1,289	1,681	1,748	3,086
Northern Pike	312	344	312	267	296	360
Rock Bass and Crappie	86	80	99	75	64	103
Round Whitefish	40	40	46	75	57	53
Sauger	9	13	16	17	20	29
Smelt	10,593	12,300	10,892	11,336	13,944	3,323
Splake	13	12	9	39	57	141
Sturgeon	17	13	15	21	20	126
Sucker (Mullet)	639	536	630	563	606	173
Sunfish	128	106	127	118	126	107
White Bass	454	756	763	904	896	1,330
White Perch	198	229	49	57	47	31
Yellow Perch	4,367	4,505	5,873	6,236	4,784	14,446
Yellow Pickerel	1,134	846	1,046	1,343	1,476	5,228
Animal Food	1,168	1,076	1,010	637	772	22
Total Landings	23,343	25,211	24,895	26,485	28,158	
Total Landed Value	$14,555	$17,161	$25,874	$23,644		$31,767

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs. and $000s

Species	1977	1978	1979	1980	1981	Value 1981
Bowfin	41	37	31	20	43	$ 4
Bullhead	625	494	525	535	514	215
Burbot (Ling)	462	384	286	239	399	8
Carp	480	251	399	268	458	71
Catfish	144	192	214	189	257	129
Chub (Deepwater Cisco)	1,338	1,240	1,106	992	866	660
Pacific Salmon	5	6	48	36	84	74
Crappie	26	48	90	60	46	32
Eel	420	514	502	373	246	260
Freshwater Drum	408	369	365	397	565	47
Goldeye	2	.....	.....	.....	.....	.....
Lake Herring (Cisco)	1,917	2,065	2,200	3,254	3,200	1,228
Lake Trout	249	367	367	618	498	513
Lake Whitefish	3,211	3,762	2,864	3,737	3,842	3,086
Northern Pike	693	764	692	592	651	360
Rock Bass	165	130	130	109	95	71
Round Whitefish	88	89	101	167	125	53
Sauger	21	29	35	37	44	29
Smelt	23,540	27,332	24,204	25,191	30,645	3,323
Splake	29	27	20	87	125	141
Sturgeon	38	30	32	48	45	126
Sucker (Mullet)	1,420	1,191	1,401	1,260	1,332	173
Sunfish	284	235	284	263	277	107
White Bass	1,008	1,680	1,695	2,009	1,969	1,330
White Perch	439	508	109	127	104	31
Yellow Perch	9,705	10,012	13,053	13,858	10,514	14,446
Yellow Pickerel	2,520	1,880	2,324	2,984	3,243	5,228
Animal Food	2,595	2,386	2,247	1,415	1,699	22
Total Landings	51,873	56,024	55,324	58,865	61,886	
Total Landed Value	$14,555	$17,161	$25,874	$23,644		$31,767

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s kg and $000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total $
1977	1,107	16,134	.....	1,067	456	226	1,738	2,446	169	23,343	14,555
1978	1,112	18,072	.....	1,179	349	172	1,834	2,352	140	25,210	17,161
1979	878	18,473	.....	858	331	210	1,621	2,217	307	24,895	25,874
1980	891	19,490	37	1,083	361	158	2,151	2,080	234	26,485	23,644
1981	1,163	20,334	93	1,461	346	314	2,060	2,154	233	28,158	31,767
by Waters in 000s lbs and $000s											
1977	2,461	35,854	.....	2,371	1,013	502	3,863	5,436	373	51,873	14,555
1978	2,471	40,160	....	2,620	775	385	4,075	5,226	312	56,024	17,161
1979	1,950	41,051	.....	1,908	736	467	3,601	4,928	683	55,324	25,874
1980	1,981	43,310	82	2,408	802	351	4,780	4,631	520	58,865	23,644
1981	2,556	44,689	204	3,210	761	690	4,528	4,735	513	61,886	31,767

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total $
1977	183	107	186	5	23	77	191	263	72	1,107	761
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478
1980	176	.....	164	5	22	72	55	265	132	891	1,147
1981	154	73	109	2	34	60	48	563	120	1,163	1,930
by Species in 000s lbs and $000s											
1977	407	237	414	12	51	171	425	584	160	2,461	761
1978	365	9	508	12	60	150	501	707	159	2,471	1,138
1979	361	8	492	30	58	156	103	563	179	1,950	1,478
1980	391	.....	365	12	49	161	122	590	291	1,981	1,147
1981	338	160	240	5	74	131	98	1,237	273	2,556	1,930

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1977	69	42	180	10,347	444	3,830	238	984	16,134	7,737
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884
1979	54	15	122	10,831	756	5,423	538	734	18,473	17,592
1980	56	10	151	11,296	888	5,674	800	615	19,490	14,024
1981	76	15	212	13,790	881	3,795	956	609	20,334	20,261
by Species in 000s lbs and $000s										
1977	153	93	400	22,994	986	8,510	529	2,189	35,854	7,737
1978	142	64	351	26,609	1,649	8,806	589	1,950	40,160	9,884
1979	120	32	272	24,068	1,679	12,051	1,195	1,634	41,051	17,592
1980	125	23	336	25,103	1,973	12,609	1,778	1,363	43,310	14,024
1981	167	32	467	30,308	1,936	8,342	2,100	1,337	44,689	20,261

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1977	9	39	.....	560	5	41	104	123	186	1,067	1,655
1978	15	70	4	641	9	49	124	77	190	1,179	1,960
1979	17	67	3	375	5	30	49	95	217	858	1,730
1980	15	101	3	524	6	18	201	124	91	1,083	2,369
1981	14	219	3	594	4	49	246	124	208	1,461	3,255
by Species in 000s lbs and $000s											
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655
1978	33	156	8	1,425	21	108	275	171	423	2,620	1,960
1979	38	149	6	833	12	67	108	210	485	1,908	1,730
1980	33	225	6	1,164	12	41	447	275	205	2,408	2,369
1981	30	482	7	1,305	9	108	542	272	455	3,210	3,255

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1977	8	172	18	72	15	32	64	52	23	456	685
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641
1980	7	77	20	88	15	41	36	11	66	361	505
1981	2	57	12	105	8	28	49	11	74	346	669
by Species in 000s lbs and $000s											
1977	17	382	41	160	33	71	142	115	52	1,013	685
1978	14	335	36	159	28	43	77	51	32	775	520
1979	8	272	46	166	43	28	99	37	37	736	641
1980	16	171	44	196	33	91	81	25	145	802	505
1981	4	125	27	231	19	61	108	24	162	761	669

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1977	.....	85	11	4	2	29	27	9	59	226	211
1978	.....	88	5	3	2	23	13	6	32	172	196
1979	.....	63	9	3	2	36	29	20	48	210	280
1980	.....	73	6	1	4	34	7	13	20	158	279
1981	.....	120	13	2	3	26	52	20	78	314	526
by Species in 000s lbs and $000s											
1977	.....	189	24	8	4	65	59	19	134	502	211
1978	1	197	11	6	4	52	29	14	71	385	196
1979	.....	139	21	7	4	80	64	43	109	467	280
1980	.....	163	13	3	9	77	16	29	41	351	279
1981	.....	264	28	4	7	56	113	45	173	690	526

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species n 000s kg and $000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1977	344	793	91	109	216	64	66	2	53	1,738	1,172
1978	294	854	128	151	294	42	41	.....	30	1,834	1,307
1979	271	887	111	159	34	75	47	.....	37	1,621	1,723
1980	240	1,282	212	225	17	77	38	.....	60	2,151	2,606
1981	91	1,327	176	173	42	110	61	.....	80	2,060	2,246
by Species in 000s lbs and $000s											
1977	765	1,762	203	243	479	142	146	4	119	3,863	1,172
1978	652	1,897	285	334	654	92	90	1	70	4,075	1,308
1979	601	1,972	247	352	76	166	105	.....	82	3,601	1,723
1980	533	2,848	471	501	37	172	84	1	133	4,780	2,606
1981	203	2,917	388	379	93	243	135	1	169	4,528	2,246

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total $
1977	176	45	41	16	612	256	453	709	138	2,446	2,217
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
1979	122	38	63	34	616	266	446	353	279	2,217	2,228
1980	91	27	154	32	765	226	337	337	111	2,080	2,533
1981	169	26	106	18	745	246	358	363	123	2,154	2,641
by Species in 000s lbs and $000s											
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217
1978	364	95	103	45	1,638	663	856	1,038	424	5,226	2,053
1979	270	84	139	75	1,370	590	992	784	624	4,928	2,228
1980	202	61	342	71	1,701	502	757	749	246	4,631	2,533
1981	372	57	233	41	1,638	541	786	798	268	4,734	2,641

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and $000s

Year	Bullhead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total $
1977	58	47	.....	5	6	18	6	11	16	167	117
1978	41	58	.....	4	1	15	3	6	12	140	103
1979	58	138	.....	11	9	31	3	18	39	307	203
1980	57	71	.....	4	15	29	2	11	45	234	157
1981	63	69	.....	8	4	34	3	15	37	233	186
by Species in 000s lbs and $000s											
1977	129	104	.....	11	14	40	14	25	36	373	117
1978	92	130	.....	9	2	34	6	13	26	312	103
1979	129	306	.....	24	19	69	7	41	88	683	203
1980	126	158	.....	10	34	64	5	24	99	520	157
1981	138	151	.....	18	9	74	6	32	428	513	186

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Men	Boats 40' and Over	Boats Under 40'	Gill Nets m 000s	Gill Nets yds 000s	Pound Nets	Trap Nets	Hoop Nets	Seine Nets m 00s	Seine Nets yds 00s	Freezers and Ice Houses	Wharves and Piers	Net Sheds	New Investment $000s	Total Value $000s
1977	2,213	209	946	10,191	11,145	120	504	1,532	69	75	303	278	450	2,195	23,775
1978	2,231	206	1,017	11,145	12,189	141	473	2,459	73	80	329	262	447	2,446	27,056
1979	1,997	212	913	10,869	11,847	80	476	1,497	62	67	309	263	451	2,834	33,950
1980	1,964	213	837	12,068	13,261	172	556	1,630	75	83	317	250	457	3,714	41,481
1981	2,043	237	885	12,616	13,879	160	689	1,430	77	85	291	275	476	5,447	54,676

LANDS AND WATERS GROUP

Room W-6626, Main Office. Telephone (416) 965-6045.

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Secretary	Ms. H. Cobden	W-6623... 1075
Administration	J. Botterill	W-6613... 2724

LAND MANAGEMENT BRANCH

Room W-6450, Main Office. Telephone (416) 965-1316.

Branch Director	E. F. Anderson	W-6450... 1316
Secretary	Mrs. B. Bourne	W-6450... 1316
Land Acquisition Officer	J. Paige	W-6628... 2738
Public Lands Section	J. Morton, Spvr.	W-6449... 2741
Public Lands Management	L. Fleguel	W-6448... 4507
Disposition	W. P. Small	W-6445... 2743
Land Appraisals Officer	J. Hogan	W-6628... 2728
Property Management Officer	L. Hall	W-6628... 2738
Land Management Planning	N. C. Gordon	W-6440... 2742
Mining Lands Section	J. C. Smith, Spvr.	W-6451... 1380
Mining Lands Administrator	F. W. Matthews	W-6452... 6918
Titles Section	J.G. Sherman, Acting Spvr.	W-6621... 1319
Document Officer	C. D. Egerton	W-6502... 1319
Acreage Tax Administrator	Mrs. D. Holland	W-6621... 1319
Records Officer	R. E. Dixon	W-6501... 1319
Land Records Manager	V. Prasad (Acting)	W-6501... 1319
Resource Access Section	J. M. Small, Spvr.	W-5606... 5735

LANDS ACQUIRED BY CROWN — Areas in hectares and acres in years ending March 31

Year	Provincial Tax Forfeitures ha	Ac	Cancellation of Sales ha	Ac	Purchased or Otherwise Acquired ha	Ac	Total ha	Ac	Acreage Tax Forfeitures ha	Ac
1978	**1**	2	**3**	8	**4,995**	12,344	**4,999**	12,354	**10,147**	25,073
1979	...	...	**0.4**	1	**2,075**	5,128	**2,076**	5,129	**22,663**	56,000
1980	**0.4**	1	...	...	2,480	6,128	**1**	1	**15,783**	39,000
1981	**1.20**	3	**0.16**	0.42	703	1,737	**1.36**	3.42	**3,600**	9,000
1982	**492**	1,215	...	...	722	1,784			**6,275**	15,500

USE OF ACQUIRED LANDS — Areas in hectares and acres in years ending March 31

Year	Provincial Parks ha	Ac	Land Management General ha	Ac	Sport Fisheries ha	Ac	Wildlife Management ha	Ac	Timber Management ha	Ac	Total ha	Ac	Interim Property Management ha	Ac
1978	**548**	1,353	**4.04**	10	...	...	**111**	275	**4,332**	10,706	**4,995**	12,344	**36,095**	89,192
1979	**2,028**	5,012	**79**	194	...	...	...	...	**3**	7	**2,110**	5,213	**34,715**	85,782
1980	**2,350**	5,807	**109**	270	**16**	40	...	...	**5**	12	**2,480**	6,128	**35,008**	86,506
1981	**549**	1,357	...	...	**51**	126	**3**	7	**100**	247	**703**	1,737	**34,692**	85,725
1982	**588**	1,453	**32**	79	**47**	117	**24**	59	**31**	77	**722**	1,784	**26,633**	64,330

PUBLIC LAND — Areas in hectares and acres in years ending March 31

Year	Patents No.	ha	Ac	Leases No.	ha	Ac	Licences of Occupation No.	ha	Ac
1978	189	**1,070**	2,643	311	**291**	719	165	**2,909**	7,188
1979	126	**523**	1,293	63	**99**	245	79	**3,580**	8,847
1980	578	**1,216**	3,005	201	**198**	488	135	**3,407**	8,419
1981	890	**1,093**	2,702	162	**276**	682	100	**3,066**	7,576
1982	690	**2,385**	5,895	211	**448**	1,107	113	**845**	2,088

MINING LANDS — Areas in hectares and acres in years ending March 31

Year	Patents			Leases					
	No.	ha	Ac	Renewals No.	ha	Ac	New No.	ha	Ac
1978	...	...	...	131	2,337	5,775	92	15,344	37,915
1979	...	...	...	137	2,049	5,062	53	3,923	9,695
1980	...	...	...	185	5,327	13,163	94	11,185	27,639
1981	...	...	...	141	2,302	5,689	60	7,704	19,037
1982	...	...	...	77	1,226	3,030	68	6,446	15,928

Year	Surface Rights			Licences of Occupation			Quite Claim Deeds and Regrants		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1978	1	37	92	5	803,827	1,986,300	119	3,349	8,275
1979	1	37	92	2	27,694	69,100	142	3,764	9,300
1980	2	90	222	1	16	39	297	7,538	18,626
1981	...	...	...	5	147,191	363,722	38	624	1,543
1982	...	...	...	3	366,705	906,115	49	1,157	2,860

PROSPECTING ACTIVITIES — in years ending March 31

Year	Mining Claims			Assessment Work (Days)	Quarry Permits Issued	Miners Licences	
	Recorded	Cancelled	In Good Standing			Issued	Renewed
1978	14,747	20,786	41,548	644,811	1,087	943	2,000
1979	13,041	16,444	37,669	752,155	1,178	991	1,723
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796

MNR REGULAR ROADS PROGRAM*

Region	No. of Kms Con./Recon.	No. of Bridges Constructed	Expenditures ($000's)	No. of Kms Maintained	Expenditures ($000's)
NORTHERN ONTARIO					
Northwestern	15.0	—	569.6	921.0	457.2
North Central	134.4	5	613.6	1,330.0	451.2
Northern	110.3	1	578.0	1,684.2	737.1
Northeastern	42.5	2	713.8	2,373.9	547.6
Sub Totals	302.2	8	$2,475.0	6,309.1	$2,193.1
SOUTHERN ONTARIO					
Algonquin	2.0	—	70.1	1,114.4	532.8
Eastern	41.3	2	99.4	598.8	158.9
Central	8.5	—	20.4	484.9	63.2
Southwestern	—	—	—	51.4	30.0
Sub Totals	51.8	2	$ 189.9	2,249.5	$ 784.9
PROVINCIAL TOTALS	354.0	10	$2,664.9	8,558.6	$2,978.0

* Program includes: Recreational Access, Forest Access, Cottage Acess, Ministry Service, Public Transport and Residential Subdivision Roads.

1981/82 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE — DIRECT PROGRAM (MNR)

Region	No. of Kms Con./Recon.	No. of Bridges Constructed	Expenditures ($000's)	No. of Kms Maintained	Expenditures ($000's)	No. of Kms Winter Road Maint.	Expenditures ($000's)
Northwestern	153.3	1	1,557.9	181.0	188.2	270.9	231.3
North Central	2.0	—	64.0	45.0	30.7	57.0	39.9
Northern	13.3	—	787.0	—	—	285.0	60.7
Northeastern	8.0	—	25.0	22.4	15.0	—	—
Total	176.6	1	$2,433.9	248.4	233.9	612.9	331.9

1981/82 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE — INDIRECT PROGRAM (COMPANY)

Northwestern	10.5	130.0
North Central	11.1	152.5
Northern	—	—
Northeastern	—	—
TOTAL	21.6	$282.5

1980-82 FOREST MANAGEMENT SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures ($000's)
Northwestern	19.5	—	2,013.4
North Central	31.0	2	1,383.8
Northern	25.1	1	2,210.6
Northeastern	5.0	—	456.7
TOTAL	80.6	3	$6,064.5

COMPANY PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures ($000's)
Northwestern	18.6	—	449.0
North Central	55.1	2	1,711.8
Northern	12.8	1	675.0
Northeastern	17.0	2	1,054.4
TOTAL	103.4	5	$3,890.2
TOTAL PROGRAM	184.1	8	$9,954.7

*F.M.S.A. Program is co-funded by the Federal and Provincial Governments.

1981-82 FOREST MANAGEMENT AGREEMENT PROGRAM*

(Partially Funded by B.I.L.D.)

Region	No. of Kms Con./Recon.	Expenditures ($000's)	No. of Kms Maintained	Expenditures ($000's)
Northwestern	54.1	559.7	27.8	10.1
North Central	156.5	2,310.3	81.1	28.1
Northern	272.4	4,664.8	182.2	61.5
Northeastern	47.8	818.8	13.5	4.9
TOTAL	530.8	$8,353.6	304.6	$104.6

* F.M.A. Program is funded in accordance with agreements between MNR and forest companies.

RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	Regular Program	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Con./Recon.	354.0	176.6	80.6 3 Bridges	—	611.2 3 Bridges
Expenditures	$2,664.9	$2,433.9	$6,064.5	—	$11,163.3
Kms. of Road Maintained	8,558.6	248.4	—	—	8,807.0
Expenditures	$2,978.0	$233.9	—	—	$3,211.9
Kms of Winter Road Maintained	—	612.9	—	—	612.9
Expenditures	—	$331.9	—	—	$331.9

ROADS & BRIDGES CONSTRUCTED & MAINTAINED BY COMPANIES UNDER AGREEMENT

Company	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Constructed	21.6	102.3 5 Bridges	530.8	655.2 5 Bridges
Expenditures	$282.5	$3,890.2	$8,353.6	$12,526.3
Kms of Road Maintained	—	—	304.6	304.6
Expenditures	—	—	104.6	104.6

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office. Telelphone (416) 965-6225.

Branch Director	Robert G. Code	W-6602...6225
Surveying Services, General Manager	S. B. Panting	W-6604...4538
Surveys Manager	D. E. Norris	W-6643...2714
Asst. Mgr., Examinations	J. E. Hietala	W-6644...2714
Asst. Mgr., Technical Service	J. A. MacIntosh	W-6641...2714
Survey Records Information	D. E. Jeanes	W-6645...7085
Geographical Referencing Co-ordinator	J. H. Kerr	W-6601...4538
Mathematical Adjustments, Head	Z. Jiwani	W-5444...4538
Mapping Services General Manager	C. T. Osborne	W-2624...4941
Cartographic Services Manager	F. W. Dawson	W-2622...4743
Drafting Services Manager	W. J. Clark	W-6521...7108
Nomenclature Services Manager	M. B. Smart	W-2542...6515
Basic Mapping Manager	B. Jackson	W-2623...1208
Chief Contract Monitor	R. Audas	W-2641...0293

Ontario Centre for Remote Sensing
880 Bay Street, Toronto, Ontario M5S 1Z8

Associate Director	V. Zsilinszky...8411
Chief Scientist	S. Pala...8411
Senior Scientist	A. Boissonneau...8411
Senior Scientist	A. Jano...8411
Staff Scientist	R. Mussakowski...8411
Staff Scientist	T. Ellis...8411
Staff Scientist	J. Watts...8411
Thermography Specialist	I. Ross...8411
Research Officer, Engineering	V. Singhroy...8411
Senior Remote Sensing Technician	J. Narraway...8411
Supervisor of Airborne Program	D. Bates...8411
Airborne Program Specialist	B. Fitzpatrick...8411
Photo Research Lab Supervisor	D. Klimes...8411

MAPPING SERVICES

ONTARIO BASIC MAPPING

1:20000 , 1:10000 scales

Completed.

In progress.

To be mapped.

1:2000 scale

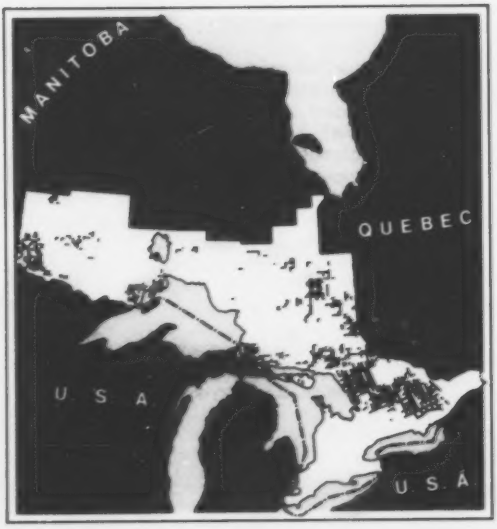
124 Communities completed.
19 Communities in progress.

SURVEYING SERVICES

Area of original township surveys.

Township boundaries resurveyed / restored.

8781 kms completed.



OFFICE OF INDIAN RESOURCE POLICY

Room W-6625, Main Office. Telelphone (416) 965-6045.

Branch Director	E. G. Wilson	W-6625 . . . 6045
Secretary	C. A. Ritchie	W-6623 . . . 6045
Indian Resource Policy Adviser	P. R. Wyatt	W-6627 . . . 6045
Indian Resource Policy Adviser	G. S. McLachlan	W-5647 . . . 1271
Senior Indian Land Claims Researcher	D. T. McNab	W-5644 . . . 1271
Indian Land Claims Researcher	L. G. Ugarenko	W-5643 . . . 1271
Indian Land Claims Researcher	D. J. Bourgeois	W-5642 . . . 1271
Clerk Steno	P. Williams	W-5641 . . . 1271

LAND USE CO-ORDINATION BRANCH

Room W-3440, Main Office. Telelphone (416) 965-2899.

Branch Director	C. A. Riley	W-3440 . . . 2899
Land Use Planning Section	M. S. Millar, Spvr	W-3440 . . . 2899
Plan Input and Review Specialist	J. C. Slot	W-3440 . . . 2899
Environmental Planner	R. D. Laprairie	W-3440 . . . 5344
Policy and Special Projects Section	E. M. Cressman, Spvr	W-3440 . . . 2899
Project Planner	J. R. M. Williams	W-3440 . . . 2899
Policy & Planning Officer	R. P. Milligan	W-3440 . . . 2899
Resource Economist	Dr. P. L. M. Warwick	W-3440 . . . 5344

PLANS REVIEWED — in years ending March 31

Year	Specific Development Plans			Official Plans Amendments Zoning By-Laws
	Subdivision	Severance	Other	
1978	1,614	4,558	566	986
1979	1,109	5,320	929	1,166
1980	1,140	6,747	1,519	1,831
1981	646	4,631	533	2,696
1982	764	7,820	1,749	4,264

PLAN INPUTS AND SPECIAL LAND USE PROJECTS — in years ending March 31

Year	Plan Inputs	Special Land Use Projects (ongoing)	Environmental Assessments
1978	181	37	.....
1979	170	35	.....
1980	172	88	109
1981	351	53	157
1982	382	82	101

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	M. R. Garrett	W-5628 . . . 6285
Asst. Director, Policy & Planning	J. S. Anderson	W-5626 . . . 6285
Spvr. Water & Related Land Mgmt	G. S. Sardesai	W-5633 . . . 6275
Spvr. Land Mgmt. & Program Eval.	R. D. Hunter	W-5629 . . . 6285
Policy Analyst	(vacant)	W-5623 . . . 6281
Head, Water Basin Planning	R. Milligan	W-5630 . . . 6275
Head, Cons. & Rec. Land Mgmt. Prog.	R. J. Dickie	W-5625 . . . 1573
Head, Financial Services	(vacant)	W-5627 . . . 7694
Library	Miss A. Perrigo	W-5611 . . . 4481
Spvr. Streamflow Forecast Centre	P. N. Gryniewski	W-5604 . . . 6292
Flood Emergency Co-ordinator	L. J. Balogh	W-5632 . . . 6277
Spvr. Models & Consultative Serv.	R. B. Chang	W-5622 . . . 6295
Head, Model Development	J. Y. Ding	W-5634 . . . 6220
Head, Coastal Zone Management	D. L. Strelchuk	W-5648 . . . 1271
Head, Consultative Services	R. M. Odell	W-5645 . . . 1271
Spvr. Admin. Support Staff	Mrs. D. Green	W-5620 . . . 6270
Youth Programs Co-ordinator	Mrs. S. E. Court	W-5635 . . . 1799

GRANTS TO CONSERVATION AUTHORITIES UNDER THE CONSERVATION AUTHORITIES ACT — in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
	$	$	$	$	$
1979	4,357,441	22,439,889	3,973,686	1,559,792	32,330,808
1980	4,756,983	20,466,353	3,404,736	1,530,000	30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119

Detailed statistical data for 1981 is not available. A new format is being developed and it is expected that significant additional 1982 data will be available for the 1983 publication.

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800. Telex 067-77166, 067-77134.

Director	J. F. Goodman	(705) 942-1800
Finance and Administration Supervisor	W. A. Sinclair	1800
Purchasing Officer	E. M. Esson	1800
Fire Management Section	W. H. Forman, Spvr.	1800
Provincial Fire Operations	J.G. Minor, Spvr.	1800
Research & Development	R. J. Drysdale, Spvr.	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	(vacant)	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt., Maintenance		
Airframe Section	S. J. Denley	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	D. J. Moffat	1800
Communications Supervisor	J. Scotland	1800
Flight Ops. Officer, Malton Airbase	W. C. Clarke	(416) 678-1172

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
	$	$					
1917	.....	.....	.....	.....	**155,466**	**1,110**	**140**
					384,164		346
1918	.....	.....	.....	.....	**12,210**	**965**	**12**
					30,172		31
1919	.....	.....	.....	.....	**373,186**	**1,780**	**210**
					922,161		518
1920	.....	.....	.....	.....	**145,222**	**1,287**	**113**
					358,851		279
1921	.....	.....	.....	.....	**303,326**	**1,269**	**239**
					749,534		591
1922	.....	.....	.....	.....	**140,099**	**1,021**	**151**
					346,193		339
1923	.....	.....	.....	.....	**857,995**	**1,343**	**639**
					2,120,148		1,579
1924	.....	.....	.....	.....	**55,091**	**851**	**69**
					146,017		171
1925	.....	.....	.....	.....	**76,705**	**1,149**	**67**
					189,543		165
1926	.....	.....	**26,664**	**9,100**	**35,764**	**1,110**	**32**
			65,888	22,486	88,374		80
1927	.....	.....	**9,216**	**5,248**	**14,464**	**924**	**16**
			22,772	12,970	35,742		39
1928	.....	.....	**39,026**	**1,598**	**40,624**	**536**	**76**
			96,436	3,947	100,383		187
1929	.....	.....	**246,353**	**6,836**	**253,189**	**1,550**	**163**
			608,750	16,893	625,643		404
1930	.....	.....	**144,688**	**143,371**	**288,059**	**1,402**	**206**
			357,531	354,278	711,809		508
1931	.....	.....	**42,843**	**13,120**	**55,963**	**1,851**	**30**
			105,866	32,421	138,287		75
1932	.....	.....	**253,558**	**21,232**	**274,790**	**2,073**	**133**
			626,555	52,466	679,021		328
1933	.....	.....	**131,537**	**10,086**	**141,623**	**1,919**	**74**
			325,034	24,924	349,958		182
1934	.....	.....	**64,891**	**15,493**	**80,384**	**1,568**	**51**
			160,348	38,285	198,633		127
1935	.....	.....	**74,090**	**27,309**	**101,439**	**1,309**	**77**
			183,179	67,483	250,662		191
1936	.....	.....	**466,957**	**44,741**	**511,698**	**2,264**	**226**
			1,153,876	110,557	1,264,443		558
1937	.....	.....	**81,701**	**9,251**	**90,952**	**1,453**	**63**
			201,887	22,859	224,746		155
1938	.....	.....	**38,918**	**17,028**	**55,946**	**1,292**	**43**
			96,168	42,077	138,245		107
1939	.....	.....	**10,558**	**1,218**	**11,776**	**961**	**12**
			26,089	3,009	29,098		30
1940	.....	.....	**40,869**	**8,346**	**49,215**	**1,014**	**49**
			100,990	20,624	121,614		120

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
	$	$					
1941	.....	.....	**109,991**	**159,751**	**269,742**	**1,265**	**213**
			271,793	394,754	666,547		527
1942	.....	.....	**31,448**	**14,571**	**46,019**	**1,224**	**38**
			77,709	36,007	113,716		93
1943	.....	.....	**13,543**	**7,831**	**21,374**	**624**	**34**
			33,465	19,352	52,817		85
1944	.....	.....	**29,635**	**38,713**	**68,348**	**1,137**	**60**
			73,228	95,663	168,891		149
1945	.....	.....	**7,283**	**12,348**	**19,631**	**966**	**20**
			17,997	30,513	48,510		50
1946	.....	.....	**18,072**	**12,995**	**31,877**	**1,739**	**18**
			44,656	32,113	78,769		44
1947	.....	.....	**15,416**	**18,591**	**34,007**	**1,393**	**24**
			38,093	45,939	84,032		60
1948	.....	.....	**345,917**	**65,806**	**411,723**	**2,036**	**202**
			854,778	162,611	1,017,389		500
1949	.....	.....	**16,427**	**7,880**	**24,307**	**1,834**	**13**
			40,593	19,472	60,065		33
1950	**55,148**	**103,682**	**5,343**	**9,541**	**14,884**	**985**	**15**
			13,203	23,577	36,780		37
1951	**389,447**	**56,389**	**39,118**	**1,854**	**40,972**	**904**	**45**
			96,662	4,581	101,243		112
1952	**29,504**	**31,347**	**2,940**	**2,087**	**5,027**	**1,095**	**4**
			7,264	5,157	12,421		11
1953	**393,874**	**81,778**	**18,016**	**5,782**	**23,508**	**1,520**	**16**
			44,519	14,290	58,089		39
1954	**406,241**	**15,650**	**14,615**	**7,518**	**22,133**	**881**	**25**
			36,115	18,578	54,693		62
1955	**3,591,680**	**184,940**	**150,118**	**10,309**	**160,427**	**2,252**	**71**
			370,948	25,475	396,423		176
1956	**3,068,152**	**22,319**	**89,768**	**1,777**	**91,545**	**1,017**	**90**
			221,822	4,390	226,212		222
1957	**463,059**	**113,751**	**9,814**	**9,065**	**18,879**	**1,671**	**11**
			24,250	22,401	46,651		28
1958	**311,503**	**97,036**	**10,337**	**4,496**	**14,833**	**1,558**	**10**
			25,544	11,108	36,652		24
1959	**22,041**	**20,757**	**1,044**	**1,093**	**2,137**	**1,029**	**2**
			2,580	2,701	5,281		5
1960	**438,094**	**56,442**	**11,813**	**888**	**12,701**	**956**	**13**
			29,190	2,196	31,386		33
1961	**31,989,802**	**152,639**	**477,894**	**1,549**	**479,433**	**1,305**	**367**
			1,180,900	3,828	1,184,728		908
1962	**74,748**	**99,165**	**3,069**	**2,517**	**5,586**	**1,521**	**4**
			7,583	6,221	13,804		9
1963	**706,888**	**39,932**	**16,467**	**6,251**	**22,718**	**1,885**	**12**
			40,692	15,446	56,138		30

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
	$	$					
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
			22,463	5,661	28,124		15
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
			14,995	4,909	19,904		16
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
			8,453	5,962	14,415		8
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
			58,733	4,769	63,502		43
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
			2,665	6,796	9,461		8
1969	134,756	4,623	1,813	669	2,482	901	3
			4,481	1,653	6,134		7
1970	1,323,041	28,815	.....	.....	23,537	1,239	18
			.....	.....	58,160		45
1971	462,064	75,875	.....	.....	14,649	1,790	8
			.....	.....	36,199		20
1972	1,081,876	47,446	.....	.....	32,029	1,604	20
			.....	.....	79,145		49
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
			5,973	2,940	8,913		8
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
			1,291,473	3,327	1,294,800		797
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
			27,740	13,911	41,651		13
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
			1,325,791	18,726	1,344,517		337
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
			1,017,460	11,279	1,028,739		502
1978	165,267	139,386	7,040	483	7,523	940	8
			17,397	1,194	18,591		20
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
			156,472	972	157,444		101
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
			1,296,031	88,512	1,384,543		778
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
			428,662	14,811	443,473		268

1981 FOREST FIRES BY DISTRICTS

District	Number of Fires	Hectares Burned Over	Acres Burned Over	ha Per Fire	Acres Per Fire
Dryden	37	14.4	35.7	.4	1.0
Fort Frances	50	16,116.8	39,824.2	322.3	796.5
Ignace	42	12.1	30.0	.2	.7
Kenora	84	87.7	216.9	1.0	2.6
Red Lake	73	20,188.9	49,886.1	276.5	683.4
Sioux Lookout	119	73,420.7	181,420.1	616.9	1,524.5
Atikokan	34	665.6	1,644.8	19.5	48.4
Geraldton	92	48,836.5	120,673.5	530.8	1,311.7
Nipigon	88	6,415.7	15,853.1	72.8	180.1
Terrace Bay	36	11.5	29.5	.3	.8
Thunder Bay	95	119.3	295.0	1.2	3.1
Chapleau	47	3,627.2	8,962.8	77.1	190.7
Cochrane	34	47.7	118.0	1.4	3.5
Gogama	10	387.1	956.6	38.7	95.7
Hearst	28	279.9	691.7	9.9	24.7
Kapuskasing	25	120.6	298.2	4.8	11.9
Kirkland Lake	56	72.8	180.1	1.2	3.2
Moosonee	16	7,843.6	19,381.5	490.2	1,211.3
Timmins	26	14.7	36.5	.5	1.4
Blind River	33	137.8	340.5	4.1	10.3
Espanola	15	43.9	108.5	2.9	7.2
North Bay	42	82.6	204.3	1.9	4.9
Sault Ste. Marie	16	42.1	104.1	2.6	6.5
Sudbury	156	73.3	181.2	.4	1.2
Temagami	18	9.3	23.0	.5	1.3
Wawa	70	124.0	306.6	1.7	4.4
Algonquin Park	17	7.2	18.0	.4	1.1
Bancroft	23	32.9	81.3	1.4	3.5
Bracebridge	15	6.1	15.1	.4	1.0
Minden	27	62.6	154.9	2.3	5.7
Parry Sound	61	64.5	159.6	1.0	2.6
Pembroke	68	144.9	358.2	2.1	5.3
Carleton Place	18	50.0	123.7	2.7	6.9
Tweed	58	226.1	558.7	3.8	9.6
Huronia	4	33.8	83.6	8.4	20.9
Lindsay	12	33.2	82.2	2.7	6.9
Owen Sound	11	14.0	34.8	1.2	3.2
Total	1,656	179,471.1	443,472.6	108.3	267.8

1981 FOREST FIRES BY MONTHS

Month	Number of Fires	Hectares Burned Over	Acres Burned Over	Ac per Fire	ha per Fire
March	27	101.3	250.4	3.7	9.3
April	141	399.4	986.4	2.8	7.2
May	312	19,419.5	47,985.1	62.2	153.8
June	57	536.3	1,325.2	9.4	23.2
July	546	151,248.6	373,735.4	277.0	684.5
August	435	5,264.8	13,009.3	12.1	29.9
September	106	32.5	80.5	.3	.8
October	16	1.3	3.3	.1	.2
November	14	2,466.9	6,095.7	176.2	435.4
December	2	.5	1.3	.3	.7
	1,656	179,471.1	443,472.6	108.3	267.8

DETECTION OF FOREST FIRES

Agencies	1977	1978	1979	1980	1981
Towers	2	0	0	1	0
Ministry Aircraft	425	136	420	484	394
Total Organized Dtn	427	136	420	485	394
Public	1,434	750	875	1,026	1,062
Other Aircraft	188	54	269	268	200
Total Random Dtn	1,622	804	1,144	1,294	1,262
Total Fires	2,049	940	1,564	1,779	1,656
% age, Organized Dtn.	21	14	27	27	24

SIZES OF FOREST FIRES

Area Burned Over		1977	1978	1979	1980	1981
Up to 1/4	Acres	811	470	785	797	848
Over 1/4 to 10	Acres	1,006	390	669	749	642
Over 10 to 100	Acres	157	57	73	133	88
Over 100 to 500	Acres	29	18	16	45	27
Over 500	Acres	46	5	21	55	51
Total Fires		2,049	940	1,564	1,779	1,656

PROSECUTIONS

Actions re Forest Fires	1977	1978	1979	1980	1981
Prosecutions	112	27	24	178	46
Convictions	103	27	14	171	40

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1977	1978	1979	1980	1981
Recreation	530	359	407	239	493
Resident	280	91	90	232	150
Incendiary	55	35	24	34	59
Railways	257	147	169	233	153
Industry (Forest)	18	19	21	26	36
Industry (Other)	32	21	28	15	38
Miscellaneous (Known)	310	87	101	160	209
Unknown	40	16	28	47	33
Lightning	527	165	696	793	485
Total Fires	2,049	940	1,564	1,779	1,656

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1977	1978	1979	1980	1981
Smoking Materials	380	171	212	173	285
Camp Fires	222	186	186	117	251
Matches	195	80	65	87	109
Fireworks	2	1	1	—	2
Explosives	2	—	1	—	2
Fusee	8	2	12	4	10
Prescribed Burning	—	2	3	—	3
Dump Ashes, Coals	5	5	7	7	6
Burning Grass	50	17	23	74	46
Burning Brush	59	39	22	35	36
Burning Rubbish	40	15	13	38	17
Burning Garbage Dump	40	8	18	33	15
Burning Bulldozed Pile	4	—	2	3	4
Burning Sawdust Pile	3	—	2	1	2
Burning Ties	12	11	10	14	16
Burning Right of Way	18	3	5	9	10
Locomotive, Diesel	38	39	37	48	38
Locomotive, Steam	—	—	—	—	—
Brake Shoe	141	66	64	101	47
Hot Box	3	—	2	6	2
Power Saw	5	1	1	7	7
Mechanical Equipment	43	30	18	34	49
Power Line (Short)	65	15	15	17	21
Sparks from Chimney	4	—	3	2	—
Sparks from Burner	1	1	3	2	1
Structural Fires	21	11	9	10	11
Miscellaneous (Known)	49	19	22	51	54
Unknown	112	54	113	114	129
Lightning	527	164	695	792	483
Total Fires	2,049	940	1,564	1,779	1,656

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1977	1978	1979	1980	1981
RECREATION					
Fishermen	141	110	138	81	184
Hunters	9	69	13	4	25
Canoeists	29	17	27	13	23
Campers	77	55	40	41	48
Picnickers	15	7	11	10	10
Berry Pickers	62	48	98	39	105
TRAVELLERS					
Car Passengers	126	38	39	70	96
Hikers	66	17	22	10	28
Train Passengers	—	—	2	—	1
Guided Parties	1	1	—	1	2
RESIDENTS					
Farmers	31	14	11	27	18
Rural Residents	137	47	47	116	88
Urban Residents	14	4	5	15	8
Private Cottagers	70	27	18	45	32
Resort Owners	3	1	1	—	5
Indians (on Reserves)	21	5	15	21	16
VOCATION					
Trappers	1	2	—	—	1
Prospectors	1	—	2	—	2
Timber Cruisers	1	—	—	—	—
Survey Parties	—	—	2	—	—
Military	2	1	—	—	1
EMPLOYEE OF—					
Woods Industry	19	16	21	21	31
Mining	5	1	1	2	9
Pipeline	—	—	—	—	—
Hydro	6	4	5	3	3
Telephone	1	1	—	1	1
Highway or Road	2	—	3	2	1
R.R. Section Crew	37	15	8	24	22
R.R. Train Crew	31	21	9	32	24
R.R. Work Crew	185	111	147	167	102
Other Industry	12	9	6	12	17
Natural Resources	10	5	7	10	34
Other Prov Government	1	1	—	—	1
Federal Government	—	1	1	—	—
Municipality	7	—	8	5	3
MISCELLANEOUS					
Children	172	48	49	60	77
Youth Camps	3	—	—	1	3
Miscellaneous (Known)	94	28	26	50	40
Unknown	130	51	87	103	112
Total Man-Caused Fires	1,522	775	869	986	1,173
Percentage of All Fires	74	82	56	55	71

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1978	3,149	1,127	3,775	287	1,088	538
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1924-82 Total	239,266	38,923	109,651	3,450	16,395	13,756

Year	Research	Inter-Ministry	Photo	Mercy Flights	Miscellaneous	Total
1978	482	3,123	479	15	1,953	16,015
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1924-82 Total	9,883	31,685	6,902	1,881	172,762	644,554

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1978	10	28,639	783.00	863
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	

ADMINISTRATION DIVISION

Room W-6345, Main Office. Telephone (416) 965-7106.

Assistant Deputy Minister	M. Mogford	W-6345...7106
Secretary	Mrs. E. Lynch (acting)	W-6345...7106
Finance, Planning & Evaluation Group		
Executive Co-ordinator	D. M. Wood	W-6347...6148
Affirmative Action		
Program Co-ordinator	M. Paul (acting)	W-5441...5663

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office. Telephone (416) 965-2756/963-1325.

Branch Director	T. E. Coleman	W-5352 . . . 3315
Secretary	Miss M. Goh	W-5352 . . . 3315
Communications and Corporate Planner	P. Andrews	W-5343 . . . 2758
Administration Services Section	R. Urquhart, Spvr.	W-5340 . . . 2756
Information Services Section	Ms. V. Chavossy, Mgr.	W-5351 . . . 2756
French Language Policy	Ms. F. Levesque, Co-ord.	W-5340 . . . 2756
Media & Editorial Services Unit	K. Robertson, Spvr.	W-5353 . . . 2756
Writing Co-ordinator	Ms. M. Welch	W-5355 . . . 2756
Media Relations Officer	C. Ross	W-5340 . . . 2756
Magazine Editor	Mrs. A. Erland	W-5340 . . . 2756
Creative Services Section	W. Yetman, Mgr.	 3-1325
Secretary	Miss C. Klemens	 3-1325
Exhibits & Displays Unit	Mrs. E. H. Brown, Spvr.	 3-1325
Exhibits Assistant	Mrs. S. Cole	 3-1325
Publications Services Unit	P. J. Brown, Spvr.	 3-1325
Publications Editor	Ms. M. Reid	 3-1325
Graphic Designer	A. Gokhan	 3-1325
Audio Visual Unit	L. Walton, Co-ord.	W-5446 . 3-1325
Photographers	W. Lanning, Mgr.	W-5450 . 3-1325
	Miss H. Bickle	W-5450 . 3-1325
Film & Audio Visual Consultants	L. Bondy	W-5452 . 3-1325
	G. Merchant	W-5446 . 3-1325
Advertising & Marketing Unit		W-5340 . . . 2756
Marketing Officer	N. Beaudry	W-5340 . . . 2756
Senior Travel Counsellor	C. Mahoney (acting)	 3-3081

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office. Telephone (416) 965-3825.

Branch Director	H. B. Farrant	W-4527...3825
Manpower Section	Mrs. E. E. Rhodes	W-4612...2707
Training and Development	R. Brayshaw	W-4606...2707
	C. Peterson	W-4605...2707
Staffing	Mrs. R. Kelly	W-4603...2707
	Miss N. Miller	W-4602...2707
Manpower Control	E. Yhap	W-4613...2707
Junior Ranger & Youth Programs	Ms. M. T. Campbell	W-4501...1258
Compensation & Staff Relations Section	J. A. Temple	W-4525...6091
Pay and Classification	E. Polonoski	W-4525...6091
	Mrs. M. Goldhar	W-4526...6091
	Mrs. M. Koszarny	W-4527...6091
	Miss J. M. Byer	W-4528...6091
	D. F. Craddock	W-4524...6091
Staff Relations	J. Quinn	W-4529...3825
Employee Relations	Mrs. C. Mahon	W-4522...9951
Personnel Records Section	Mrs. L. England	W-4520...3961
Accounting & Benefits	Miss N. Davidson	W-4520...3961
Safety Program Development Section	A. B. Shipston	W-4502...2735
Human Resources Planning Section	Miss N. Boucher	W-2544...0323

PERSONNEL SERVICES BRANCH

Total Staff

March 31, 1982	Regular	Probationary	Unclassified	Total
Main Office	892	56	492	1,440
Field Offices	3,201	153	1,073	4,427
Total	4,093	209	1,565	5,867

Total Number of Positions	4,550
Total Number of Staff	4,302
Total Number of Vacancies	248
New Employees Hired 1981/82	140
Management Staff	1,063
Executive Staff	45
Bargaining Unit Staff	3,239
Total	4,347
Deceased	9
Transferred	36
Released	0
Resigned	81
Dismissed	1
Retired	45
Miscellaneous	0
Total	172

STAFF SUMMARY

Staff at March 31	1978	1979	1980	1981	1982
Regular Staff	3,614	3,919	4,088	4,060	4,093
Probationary Staff	250	456	341	322	209
Unclassified Staff	2,051	1,698	1,938	1,636	1,565
Total Staff	5,915	6,073	6,367	6,018	5,867
Main Office Staff	906	930	917	880	863
Field Office Staff	2,958	3,445	3,512	3,502	3,439
New Employees	250	862	316	306	140
Deceased	9	8	11	10	9
Superannuated	95	97	89	99	45
Transferred	49	32	38	1	36
Resigned	91	146	199	165	81
Dismissed	1	0	3	3	1
Released	1	4	1	5	0
Miscellaneous	0	0	0	29	0
Total Separations	246	287	341	312	172
Junior Rangers	1,918	1,968	1,800	1,736	1,736

MANAGEMENT GROUPS

Administrative	239
Clerical	14
Operational	19
Professional	283
Technical	508
Total	1,063

Executive Compensation Plan — 45

BARGAINING UNIT CATEGORIES

Administrative Services	74
Scientific & Professional Services	450
Technical Services	1,398
Office Services	391
Clerical Services	526
Maintenance Services	310
General Operational Services	90
Total	3,239

ENERGY OFFICE

Room W-5446, Main Office. Telephone (416) 965-5537.

Executive Co-ordinator	Dr. M. Walmsley	W-6350...5720
Admin. Asst. (Energy & BILD)	A. Ireland-Smith	W-5447...5537
Energy Policy Advisors		
Mineral Resources	P. Telford	1183
Forest Resources	W. Alton	2731
Administration	G. Laivenieks	4600
Lands and Waters	T. Kurtz	6285
Outdoor Recreation	S. Fasken	5661

BILD OFFICE

Co-ordinator	D. M. Wood	W-6347...6148
Admin. Asst. (Energy & BILD)	A. Ireland-Smith	W-5447...5537

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office. Telelphone (416) 965-2711.

Branch Director	J. A. Queen	W-5528...2711
Services Section	R. Armstrong, Chief	W-5529...3317
Support Services	H. L. Bembridge, Mgr.	W-5301...5134
Conferences, Hospitality	M. D. Cantelon	W-5526...6166
Office Services		W-5301...5134
Vehicle Pool	Mrs. J. Mills	W-5301...5134
Public Service Centre	Mrs. M. I. Leuty, Spvr.	W-1640...6511
General Inquiry (MNR) (Whitney Block Info Booth)		2000
Central Supply Warehouse 51 Esander Drive, Toronto		1286
Data Process	R. Khan, Supv.	W-5420...0116
Remote Job Entry Terminal	Miss D. Danlake	W-5426...3419
Copy Centre		W-5501...6790
Mail Services		W-5310...2778
Telex & Telecopier		W-5312...2784
Facilities Development	T. Pierro, Mgr.	W-5423...4600
Accommodation Officer	J. Petersen	W-5423...4600
Accommodation Services	S. Fenton	W-5423...4600
Purchasing	J. May, Spvr.	W-5520...1601
Operations Analysis Section	G. Laivenieks, Chief	W-5520...4600
Fleet Insurance	L. Krol	W-5503...1255
Supply Analyst	Mrs. L. Wright	W-5525...4600
Contracting Specialist	J. Farrell	W-5524...4600
Records Management and Office Methods	A. Lesser, Mgr.	W-5422...3822
Methods Analyst	A. Vander Veen	W-5422...3822
Microfilm Unit		W-5601...0628
Word Processing Unit		W-5422...3822
Administrative Technology Section	D. Waller, Chief	W-5520...4600

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1982

Type	*Number in Operation
Subcompact Cars and Station Wagons	7
Compact Cars and Station Wagons	145
Full-size Cars and Station Wagons	106
Standard and Extended Pickups	742
Four-wheel Drive Vehicles	258
Crew Cabs and Cargo Vans	76
Passenger Vans and Personnel Carriers	128
Buses	9
Cab and Chassis — 10,000 GVW	91
Cab and Chassis — over 10,000 GVW	147
Cab and Chassis — specialized bodies	28
TOTAL	1,737
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	580
Tractors	305

*Number includes replacements and vehicles to be disposed of.

LEGAL SERVICES BRANCH*

Room W-6420, Main Office. Telelphone (416) 965-2748.

Director	J. Shantora	W-6427 . . . 2748
Solicitors	C. L. Cottle	W-6423 . . . 2748
	B. G. Jones	W-6422 . . . 2748
	R. C. Kay	W-6428 . . . 2748
	L. A. Low	W-6425 . . . 2748
	W. J. Obelnycki	W-6424 . . . 2748
	J. M. Pounder	W-6429 . . . 2748
	T. N. Trow	W-6426 . . . 2748

LEGAL SERVICES — year ending March 31, 1982

Regulations Prepared and Processed	Orders in Council	Legal Agreements
75	504	364

*Legal Services Branch was transferred to the Attorney General on April 1, 1973, and seconded to the Minister of Natural Resources on the same date.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATER GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25% of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canda). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designed in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The Province calls for tenders for buildings and facilities.

Vehicle admission charge is $2.50 per day or $25.00 for the season. Campsite charges are $6.00 per day, or $6.50 per day where comfort station facilities are available, and $8.00 per day for campsites with electrical power. The charge for an extra car on a campsite is $3.00 per day. On unorganized campsites in park interiors, the charge is $4.00 per boat per day.

The above fees reflect those charged during peak periods, they may vary depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m (1,000 feet) of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300m (1,000 feet) of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973 the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a

treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:—

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and aproved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of $50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958 provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

*The Minister of Tourism and Recreation has been designated to administer these Acts by virtue of Order in Council 464/82 as of February 13, 1982.

FINANCE, PLANNING AND EVALUATION GROUP

Room W-6347, Main Office. Telelphone (416) 965-6148.

Executive Co-ordinator	D. M. Wood	W-6347...6148
Secretary	Mrs. C. Caddell	W-6346...6147
Management Planning and Analysis Director	G. A. Kettel (acting)	W-6341...4143
Systems Services		
Director	J. H. Findeis	W-4429...2750
Systems Co-ord. Mgr.	C. K. Moulson	W-4426...5674
Manager, Systems	R. Seel	W-4428...5672
Mgmt. Information System Implementation Director	V. K. Macdonald	W-5445...2781

FINANCIAL SERVICES BRANCH

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Chief Accountant	A. R. Taylor	W-4326...2761
Accounts Payable Section	J. T. Tunnicliff	W-4302...2764
Licence Issuing Section	T. Headley	W-4342...2814
Payroll Section	C. P. Edward	W-4341...2766
Revenue Section	S. A. Perry	W-4443...2770
Financial Reporting and Control Sect.	I. A. Nott, Manager	W-4323...1895
Expenditure Control	R. Kerr	W-4321...1895
Financial Reporting & Claims	V. Ferrara	W-4321...1895
Financial Methods Section	G. Jarzabek, Mgr.	W-4420...1218
Financial Policy Development Section	E. V. Young, Mgr.	W-4340...1033

REVENUE AND EXPENDITURES — In years ending March 31

Year	Bugetary Revenue	Budgetary Expenditure
	$	$
1978	99,733,072	242,207,223
1979	129,401,477	246,388,247
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018

LANDS REVENUE — In years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
	$	$	$	$	$	$
1978	13,715,920	158,100	686,992	44,931	89,300	401,880
1979	16,132,257	762,394	741,831	41,672	109,175	440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492

Year	Assignments & Extension Fees	Cons. Authorities Federal Agreements	Cons. Authorities Return of Grants	Recovery Prior Years Land Acquisition	Misc.	Total
	$	$	$	$	$	$
1978	39,562	1,100,177	12,629	18,987	14,380	16,,282,858
1979	29,906	575,491	127,846	5,402	40,437	19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
	$	$	$	$	$	$	$
1978	30,776,425	2,232,462	213,095	253,492	982,418	76,098	34,533,990
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
	$	$	$	$	$	$	$	$	$	$
1978	81,295	280,417	17,870	802,480	1,065,821	22,919,376	4,210	70,698	1,074	25,243,241
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	102,797,191
1981	111,328	639,844	11	847,501	2,380,790	161,061,781	4,060	108,408	—	165,153,723
1982	319,952	537,731	3,191	582,818	2,250,102	55,411,740	2,840	153,161	—	59,261,535

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsite Permits	Concessions Rental	St. Lawrence Lic & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
	$	$	$	$	$	$	$	$
1978	729,408	3,753,880	350,837	1,432,275	421,208	—	69,865	6,757,473
1979	913,499	5,238,214	371,071	1,791,382	288,258	—	168,961	8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	100,850	10,196,631
1981	935,283	5,585,691	477,926	1,931,825	2,448,976	15,000	133,917	11,528,618
1982	1,215,227	5,519,852	356,984	1,933,584	1,572,055	18,000	188,964	10,804,666

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Other Fishing	Commercial Fishing	Non-Res Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
	$	$	$	$	$	$	$	$	$
1978	5,603,400	93,838	95,125	1,766,613	9,466	863,246	1,056,029	75,678	997,357
1979	5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,539	1,129,511	1,436,576	74,068	1,502,536
1981	7,513,033	152,757	122,301	1,605,102	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	7,610,191	156,957	177,419	1,490,490	122,105	1,296,196	1,375,086	83,677	1,584,495

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov. Park Hunting	Misc. Fees & Licences	Royalty Game	Agreements Outside Agencies	Agreements Federal	Total
	$	$	$	$	$	$	$	$	$	$
1978	15,681	52,969	5,965	105,339	59,800	95,806	666,789	18,636	321,114	11,902,851
1979	17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	—	266,117	13,999,328
1981	76,998	69,635	8,400	90,006	66,088	118,488	1,201,461	76,016	291,475	15,877,422
1982	75,957	65,387	8,950	85,722	53,400	140,728	1,159,433	123,947	361,447	15,911,587

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van & Eqpt.	Confiscated Articles	Frost Centre	Non-recurring Items and Misc.	Board & Lodging	Total
	$	$	$	$	$	$	$	$	$	$
1978	1,817,587	835,720	457,659	16,177	875,868	84,033	292,358	633,257	—	5,012,659
1979	1,931,946	391,611	436,711	23,784	224,918	32,445	230,637	153,705	—	3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	—	3,835,102
1981	2,265,256	651,527	415,824	14,513	1,648,707	21,714	296,127	378,010	241,577	5,933,255
1982	2,300,366	670,538	450,197	5,112	479,650	46,149	340,651	379,107	175,854	4,847,624

INTERNAL AUDIT SERVICES BRANCH

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Branch Director	A. A. Ward	W-4637 . . . 4087
Main Office Audit Manager	D. L. Lay	W-4634 . . . 4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Senior Auditor	W. C. Johnstone	(705) 942-1418 (IC 842)
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	N. D. Nurse	(807) 475-1211 (IC 844)
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling	(416) 832-2761 Ext. 281

BUDGET AND PROGRAM EVALUATION BRANCH

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Program Planning and Budget Section		
Manager	D. Lay (acting)	W-6309...4210
Budget Supervisor	J. Heywood	W-6309...5539
Financial Analyst	J. Rawston	W-6309...4210
Program Evaluation Secton		
Manager	G. Doan	W-6540...4218
Control Systems and Financial Analysis Section		
Manager	D. M. Powers	W-6540...9052
Senior Financial Analyst	R. McDougal	W-6312...9052
Budget Accountant	P. Chen	W-6312...9052

NORTHWESTERN REGION

D. R. Johnston ...	Regional Director.....
W. J. Straight	Deputy Reg Director
D. R. Fortner.....	Deputy Reg Director
G. N. McGeachy..	Admin Co-ord
K. J. Chambers...	Biologist
R. J. Kincaid	Fire Mgt Officer
G. N. Warner.....	Safety Officer
R. C. Beard	Geologist
D. A. Janes	Geologist
Sioux Lookout .	737-1291
M. Durocher	Geologist
Red Lake.....	727-2252

Box 5160, 808 Robertson St., Kenora,
Ont P9N 3X9... Phone (807) 468-3111

A. G. Mathews ...	Forester
G. G. Pyzer	Lands Co-ord
R. A. Balkwill	Parks & Rec Co-ord
S. O. Russell.....	Eng Services Co-ord
W. S. Mathew	Mining Lands Admin.
A. Hanson.....	Mining Recorder
Sioux Lookout .	737-2100
A. S. Rivett	Mining Recorder
Red Lake.....	727-2250

Region Service Centre, G. M. Fenelon, Box 850, Dryden ..... Phone (807) 937-4402
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon ..... Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora
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D. B. McGregor...	District Manager
R. G. McCue	Administration
D. Philippi.....	Field Services
G. K. Winterton...	Fish & Wildlife
W. H. Mills.....	Forests
T. J. Lunny	Lands
R. W. Paterick....	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout
Ont P0V 2T0 ... Phone (807) 737-1140

A. J. Stewart	District Manager
W. L. Bertrand ...	Administration
H. D. Morrison ...	Field Services
A. A. Martin.....	Fish & Wildlife
J. M. McIntyre....	Forests
F. E. Brown.....	Lands & Parks

RED LAKE DISTRICT

Box 323, Red Lake,
Ont P0V 2M0... Phone (807) 727-2531

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration
B. A. Sandilands..	Fish & Wildlife
P. R. Gagnon.....	Forests
T. E. Campbell ...	Field Services
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances
Ont P9A 1J4 ... Phone (807) 274-5337

J. K. Cleaveley ...	District Manager
B. Y. Katerick	Administration
S. E. Cameron....	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece.....	Forests
C. E. Horne	Lands

DRYDEN DISTRICT

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G. M. Tupling	District Manager
J. Hamilton.....	Administration
A. MacDonald....	Field Services
R. W. Taylor	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom.....	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace
Ont P0T 1T0 ... Phone (807) 934-2233

T. E. Dodds	District Manager
W. A. Brunton....	Administration
P. R. Croskery....	Fish & Wildlife
B. Ferguson	Forests
J. D. Bond	Field Services
P. J. Pincombe ...	Lands, Parks

NORTH CENTRAL REGION

L. M. Affleck ..... A/Regional Director
D. E. McHale ..... A/Deputy Reg. Director
W. Hendry ..... Deputy Reg Director
J. D. Chadwick ... Admin Co-ord 1221
R. T. Thomson ... Biologist 1231
A. B. Johnson .... Fire Mgt Officer .. 1241
J. T. Rudolph .... Forester 1251
A. W. Currie ..... Parks-Rec Co-ord . 1281

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R. B. Adamson ... Engineer 1301
D. J. Murray ..... Lands Co-ord ... 1321
K. G. Fenwick .... Geologist 1331

Dorion Trout Rearing Station, F. S. Watson ..... Phone (807) 857-2322
Regional Fire Centre, L. R. Hutchinson ..... Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia ..... Phone (807) 577-6409

THUNDER BAY DISTRICT

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R. A Lessard .... A/District Manager
B. G. Griffin ..... Administration
J. Gomm ..... Field Services
H. D. Howell ..... Fish & Wildlife
R. G. Klein ..... Forests
T. J. Leveque ..... Parks & Rec
J. W. Suttie ..... Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan
Ont P0T 1C0 ... Phone (807) 597-6971
A. M. Harjula ..... District Manager
B. A. Prince ..... Administration
R. N. Boyle ..... Engineering Services
B. H. Gibson ..... Fish & Wildlife
(vacant) ..... Forests
D. H. Elder ..... Lands & Parks
M. Horan ..... Fire Control

TERRACE BAY DISTRICT

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Ont P0T 2W0 ... Phone (807) 825-3205
P. A. Strassburger District Manager
G. K. Sidhu ..... Administration
R. R. Cockerline .. Field Services
J. A. Chappel .... Fish & Wildlife
T. B. Scott ..... Lands & Parks

Manitouwadge Work Centre
Box 309, Manitouwadge
Ont P0T 2C0 ... Phone (807) 826-3225
R. Waito ..... Forests
C. J. Currie ..... Fire Control

GERALDTON DISTRICT

Box 640, Geraldton,
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E. H. Stone ..... District Manager
L. S. Morrow ..... Administration
E. P. Herrington .. Field Services
W. J. Cook ..... Fish & Wildlife
D. Jovic ..... Forests
A. Hoshino ..... Lands & Parks

NIPIGON DISTRICT

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Ont P0T 2J0 ... Phone (807) 887-2120
G. O. Koistinen ... District Manager
M. Wilson ..... Administration
W. R. Doyon ..... Field Services
L. Townes ..... Fish & Wildlife
G. Marek ..... Forests
D. Bean ..... Lands & Parks

NORTHERN REGION

G. P. Elliott ..... Regional Director.....
L. H. Lingenfelter. Deputy Reg. Director
R. I. Thompson... Admin Co-ord
J. Young ..... Biologist
H. I. Mattson..... Parks & Rec Co-ord
J. S. Dougan..... Personnel Co-ord
C. Roswalka ..... Safety Officer
4 Govt Rd E, Kirkland Lake
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R. C. Barty..... Operations Manager
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Ont P0L 1C0 ... Phone (705) 272-4287
D. W. Schafer .... Deputy Reg Director
60 Wilson Avenue, Timmins,
Ont. P4N 2S7 .. Phone (705) 267-1401
W. E. Belisle ..... Fire Management
W. O. Mackasey .. Mineral Res Co-ord
F. J. Wilson..... Lands Co-ord
T. Isherwood..... Forester
M. S. Paradis..... Engineer
Swastika Forest Station, L. J. Forcier ..... Phone (705) 642-3255
Hill Lake Trout Rearing Statoin, P. Graf..... Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane
Ont P0L 1C0 ... Phone (705) 272-4365
G. A. Wright ..... District Manager
G. Nantel..... Administration
A. C. Hutchinson . Field Services
W. Therriault..... Outdoor Rec
J. Starr..... Forests
F. Wright..... Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau
Ont P0M 1K0... Phone (705)864-1710
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O. E. Crawford ... Administration
J. R. Russell ..... Field Services
G. A. Black ..... Fish & Wildlife
P. K. Bidwell ..... Forests
J. P. Dick..... Lands
G. W. Dingee..... Parks & Rec

GOGAMA DISTRICT

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C. Dionne ..... District Manager
R. Fink..... Administration
M. Sitts..... Field Services
W. Sinclair ..... Fish & Wildlife
C. Mason..... Forests
D. Stewart..... Lands & Parks

HEARST DISTRICT

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W. C. Trowsse ... Adminstration
L. G. Woods ..... Field Services
S. St. Jules ..... Fish & Wildlife
D. Stillar ..... Forests..... 362-4264
M. J. Girouard.... Lands & Parks

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing,
Ont P5N 2W4 .. Phone (705) 335-6191
R. G. Lightheart .. District Manager
L. Keller..... Administration
R. Carriere..... Field Services
C. Jessop ..... Fish & Wildlife
K. Buck ..... Forests
D. Miller..... Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika,
Ont P0K 1T0 ... Phone (705) 642-3222
J. E. Hamilton.... District Manager
G. E. Allick ..... Administration
R. Landry..... Field Services
L. Chamberlin.... Fish & Wildlife
B. I. Thompson... Forests
J. A. Colquhoun .. Lands
W. B. Hill..... Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins,
Ont P4N 3W2 .. Phone (705) 267-7951
A. F. Papineau ... District Manager
V. A. Mathieu .... Administration
D. E. Shewen..... Field Services
T. Corbett ..... Fish & Wildlife
D. F. Jefferson ... Forests
C. R. Biggar..... Lands & Parks

MOOSONEE DISTRICT

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Ont P0L 1Y0 ... Phone (705) 336-2987
S. Toole..... District Manager
(vacant)..... Administration
G. F. McAuley.... Field Services
(vacant)..... Biologist

NORTHEASTERN REGION

W. G. Cleaveley .. Regional Director.....
D. J. Vance ..... Deputy Reg Director
R. M. Christie .... Deputy Reg Director
J. C. Kindness ... Admin Co-ord
C. H. Bennett .... Personnel
A. W. McClellan .. Cons Auth Prg-Supr
(vacant)..... Mining Lands Admin

199 Larch Street, Sudbury
Ont P3E 59P ... Phone (705) 675-4120
V. C. Miller ..... Mining Recorder
J. C. Wilson..... Mineral Res Co-ord

J. L. Canfield..... Fire Mgmt Co-ord
J. R. Chevalier.... Biologist
H. Walsh ..... Engineer
W. C. Stevens.... Forester
E. A. Wright..... Lands Co-ord
C. Clark ..... Parks-Rec Co-ord

Sault Ste. Marie (705)
M. V. St. Jules.... Mining Recrdr 254-6884
G. M. Bennett.... Geologist 942-1414

Tarentorus Trout Rearing Station, D.V. Storms (S.S. Marie) ..... Phone (705) 253-8953
North Bay Trout Rearing Station, B.A. Marchant (North Bay) ..... Phone (705) 663-2311
Sandfield Fish Hatchery, G. Clarke (Espanola)..... Phone (705) 859-3340

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St. S.S. Marie
Ont P6A 5L5 ... Phone (705) 949-1231
J. H. Sellers..... District Manager
H. J. Smith ..... Administration
L. G. Bell ..... Fire Control
E. A. Pozzo ..... Fish & Wildlife
F. Janser..... Forests
I. J. Valentine .... Lands
L. R. Davey ..... Parks

SUDBURY DISTRICT

Box 3500, Stn A, Sudbury
Ont P3A 4S2 ... Phone (705) 522-7823
J. A. Simpson .... District Manager
M. H. Jackson.... Administration
F. C. Shaver ..... Field Services
G. J. Haarmeyer .. Fish & Wildlife
D. R. Potvin..... Forests
M. K. Smith..... Lands
D. H. Brunette.... Parks

NORTH BAY DISTRICT

Box 3070, North Bay,
Ont P1B 8K7 ... Phone (705) 474-5550
E. Rogers ..... District Manager
G. E. Lacelle ..... Administration
K. T. Fuller ..... Field Services
M. R. Wolfe..... Fish & Wildlife
D. E. Honeyborne. Forests
R. V. Coulombe .. Lands
H. J. Edmundson . Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St, Blind River,
Ont P0R 1B0 ... Phone (705) 356-2234
D. L. Hagar ..... District Manager
F. McWhinnie.... Administration
W. J. Davis ..... Field Services
S. B. Woodside... Fish & Wildlife
C. F. Husk..... Forests
R. H. Wood ..... Lands
G. W. Connell .... Parks

WAWA DISTRICT

Box 1160, Wawa
Ont P0S 1K0 ... Phone (705) 856-2396
E. E. Murphy..... District Manager
Mrs. J. M. Kern ... Administration
A. J. Bull ..... Field Services
E. R. Thomas .... Fish & Wildlife
C. K. Sumi..... Forests
E. V. Uhler..... Lands
J. T. Stott ..... Parks

ESPANOLA DISTRICT

Box 1340, 148 Fleming St, Espanola
Ont P0P 1C0 ... Phone (705) 869-1330
E. N. Arbuckle.... District Manager
Mrs. S. Catling ... Administration
D. R. Hughson ... Outdoor Rec
J. F. Christian.... Forests
D. C. Carnochan.. Lands

TEMAGAMI DISTRICT

Box 38, Temagami
Ont P0H 2H0... Phone (705) 569-3622
R. G. McGee..... District Manager
W. W. Hicks ..... Administration

H. G. Smith..... Field Services
W. P. Brook..... Forests
R. B. Sinclair..... Lands & Parks
S. T. Flemming... Fish & Wildlife

ALGONQUIN REGION

K. K. Irizawa	Regional Director.....	Box 9000, Brendale Square, Huntsville,	
A. E. Walroth.....	Deputy Reg Director	Ont P0A 1K0 ...	Phone (705) 789-9611
J. H. Lever.....	Deputy Reg Director		
J. Carswell	Admin Co-ord	H. J. Henry	Forester
C. W. Douglas....	Biologist	W. J. Logan.....	Geologist
A. P. Stephen	Engineer	D. J. Johnstone ..	Lands Co-ord
B. Petman.....	Fire Mgt Officer	J. A. van der Meer.	Parks & Rec Co-ord

Pembroke Trout Rearing Station, A. G. Moore ..... Phone (613) 687-5935
Skeleton Lake Fish Hatchery, (vacant)..... Phone (705) 769-3731

PARRY SOUND DISTRICT
4 Miller Street, Parry Sound
Ont P2A 1S8 ... Phone (705) 746-4201

W. J. Lovering....	District Manager
G. F. Walter.....	Administration
C. R. Mumford ...	Field Services 5825
J. F. Gardner	Fish & Wildlife
G. C. Felton.....	Forests
J. A. Shalla	Parks
L. A. Connelly....	Lands

BANCROFT DISTRICT
Box 500, Bancroft,
Ont K0L 1C0 ... Phone (613) 332-3940

M. P. Barker	District Manager
F. Buchan	Administration
M. F. Rush.....	Field Services
V. B. Collins	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan..	Parks
O. J. Fleming	Lands
H. Meyn.....	Geologist

ALGONQUIN PARK DISTRICT
Box 219, Whitney
Ont K0J 2M0... Phone (705) 637-2780

T. J. Millard.....	Park Supt, Dist. Man.
E. A. Dayment....	Administration
R. W. Stewart	Fish & Wildlife
D. F. George	Forests
J. E. Elliott	Lands
L. L. Powell.....	Alg Park Operations
B. A. Norris.....	Field Services

PEMBROKE DISTRICT
Box 220, Riverside Drive, Pembroke,
Ont K8A 6X4 ... Phone (613) 732-3661

L. J. Haas	District Manager
A. H. Plummer ...	Administration
C. R. Buske.....	Field Services
A. E. Armstrong ..	Fish & Wildlife
W. W. Wahl.....	Forests
E. N. McKenzie...	Lands & Mines
G. D. Yarranton...	Parks

BRACEBRIDGE DISTRICT
Box 1138, Bracebridge,
Ont P0B 1C0... Phone (705) 645-5244

H. P. Endress	District Manager
J. S. Purves.....	Administration
J. T. Matthews ...	Field Services
D. M. Brooks.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis	Parks

MINDEN DISTRICT
Minden,
Ont K0M 2K0 .. Phone (705) 286-1521

D. D. White	District Manager
R. E. Raby	Administration
T. C. Russell.....	Field Services
D. G. Atkinson ...	Fish & Wildlife
B. G. Cross	Forests
J. E. Dewey.....	Lands & Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE
Dorset, Ont P0A 1E0. Phone (705) 766-2451.

G. A. Hamilton ...	Director		
S. A. Williams....	A/Plan & Mgmt Supt	Specialists:	
H. Curnow.....	Operations Supt	D. C. Preston (acting)	Forestry
D. L. Lillow	Field Services	M. E. Buss.....	Fish & Wildlife
W. A. Chambers ..	Finance & Admin	C. K. Macdonald..	Recreation
T. G. Wright.....	Food Services	J. A. Stocking....	Lands
H. J. Barnhart....	Maint Foreman	B. A. Martin.....	A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director
D. E. Gage	Deputy Reg Director
S. R. Hamilton	Deputy Reg Director
W. B. Bowles	Admin Co-ord
D. G. Watton	Biologist
R. W. Beecher	Cons Auth Prg-Spvr
J. R. Stork	Engineer
P. E. Anslow	Forester

Provincial Government Building,
Concession Road, Kemptville
Ont K0G 1J0 ... Phone (613) 258-3413

W. G. Maslen	Lands Co-ord
W. P. Barber	Parks & Rec Co-ord
Dr. M. A. Klugman	Mines Co-ord
J. W. Lloyd	Field Services Co-ord

Codrington Fish Hatchery, A. H. Draves ..... Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele ..... Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine ..... Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell ..... Phone (613) 258-3413

TWEED DISTRICT
Metcalfe Street, Tweed,
Ont K0K 3J0 ... Phone (613) 478-2330

W. Vonk	District Manager
G. J. O'Hearn	Administration
W. F. Caverly	Lands
J. C. Williamson	Outdoor Rec
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res Geologist

CARLETON PLACE DISTRICT
Lanark Office, Box 239, Lanark,
Ont K0G 1K0 ... Phone (613) 259-2942

J. R. Bailey	District Manager
G. Sanderson	Administration
J. D. McCready	Forests
D. G. Kennedy	Field Services
K. J. Schonauer	Parks
R. H. Jones	Fish & Wildlife
R. M. Rogers	Lands
M. A. MacDonald	Mineral Resources

CORNWALL DISTRICT
Box 1749, 113 Amelia St. Cornwall
Ont K6H 5V7 ... Phone (613) 933-1774

J. R. Morin	District Manager
W. J. Humphrys	Administration
P. A. McDonald	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
B. W. McCue	Lands

NAPANEE DISTRICT
1 Richmond Blvd. Napanee
Ont K7R 3S3 ... Phone (613) 354-2173

R. G. Bailey	District Manager
R. A. Armstrong	Administration
A. Denys	Forests, Field Serv
R. G. Baldwin	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson	Parks
S. Thatcher	Mineral Resources

BROCKVILLE DISTRICT
101 Water ST West, Brockville
Ont K6V 5Y8 ... Phone (613) 342-8524

C. A. Haxell	District Manager
D. G. Gilmer	Administration
G. L. Penney	Fish & Wildlife
H. DeVries	Forests
G. Tabobondune	Field Services & Lands & Parks

CENTRAL REGION

R. J. Burgar	Regional Director	295	10670 Yonge Street, Richmond Hill
A. D. Latornell	Dep Reg Director	297	Ont L4C 3C9 — Phone (416) 884-9203
F. G. Shaw	Dep Reg Director	290	M. Narain — Geologist
H. Tjoelker	Admin Co-ord	208	L. G. D. Thompson — Mines Co-ord — 232
J. B. Dawson	Biologist	282	M. G. Lewis — Service Engineer — 216
J. J. McFadden	Cons Auth Co-ord	206	J. T. Griffin — Parks-Rec Co-ord — 299
R. N. Staley	Forester	289	J. F. Gosnell — Lands Co-ord — 234

Midhurst Forest Station, Midhurst, C. R. Groves ..... Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting ..... Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, B. D. Swaile ..... Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. T. Cation ..... Phone (705) 778-3391
Ringwood Fish Hatchery, C. N. Core ..... Phone (416) 640-6204

MAPLE DISTRICT
Maple,
Ont L0J 1E0 — Phone (416) 832-2761

I. B. Earl	District Manager	203
W. B. Pottelberg	Administration	300
D. M. Hogg	Fish & Wildlife	211
C. D. Simpson	Lands	208
M. Charbonneau	Parks	240
Si Dae Kim	Forests, Fld Serv	224
R. N. Kervin	Mineral Resources	210

LINDSAY DISTRICT
322 Kent St West, Lindsay,
Ont K9V 4T7 — Phone (705) 324-6121

C. R. Gray	District Manager
A. V. Kaufman	Administration
P. A. Smith	Fish & Wildlife
T. Tworzyanski	Forests, Fld Serv
L. C. Selby	Lands & Minerals
R. W. Allen	Parks

HURONIA DISTRICT
Midhurst,
Ont L0L 1X0 — Phone (705) 728-2900

W. D. Mansell	District Manager
D. H. Poff	Administration
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur	Services
J. R. Winters	Parks
W. D. Mansell	Wasaga Project

CAMBRIDGE DISTRICT
Box 2186, Cambridge,
Ont N3C 2W1 — Phone (519) 658-9355

W. R. Catton	District Manager
B. J. DeGunst	Administration
G. M. Tupling	Fish & Wildlife
S. Yorgan	Forest Mgmt
B. L. Houck	Parks
D. A. Routly	Lands & Minerals

NIAGARA DISTRICT
Box 1070, Highway No. 20, Fonthill,
Ont L0S 1E0 — Phone (416) 892-2656$

J. E. Dickenson	District Manager
A. J. Vos	Administration
E. A. Kraker	Forests, Fld Serv
P. J. Drysdale	Outdoor Recreation
J. Z. Fraser	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London, Ont N6E 1N9
J. D. Parker	Deputy Reg Director	Phone (519) 681-5350
V. G. Milne	Deputy Reg Director	
D. W. Munch	Admin Co-ord	
H. A. Orr	Biologist	P. A. Palonen — Mineral Resources
R. J. McClure	Cons Auth Prg-Spvr	J. A. Fingland — Lands Co-ord
P. H. Crook	Engineer	(vacant) — Parks & Rec Co-ord
E. F. Johnston	Forester	

Chatsworth Fish Hatchery, P. H. Hartmann ..... Phone (519) 794-2340
Normandale Fish Hatchery, W. A. Hooper..... Phone (519) 426-3142
St. Williams Forest Staton, R. E. Laupert..... Phone (519) 586-3576
Petroleum Resources Lab, London, R. E. Booth-Horst ..... Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont N7M 5L8 — Phone (519) 354-7340

W. L. McNab	District Manager
H. Lehmann	Admin, Eng Services
H. Manson	Fish & Wildlife
K. Yaraskavitch	Forests
A. D. Carr	Parks
H. W. Rowe	Lands, Min Resources
G. Crewe	Petroleum Resources

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe, Ont N3Y 3R2 — Phone (519) 426-7650

M. F. McKenzie	District Manager
A. McGarrity	Administration
J. M. Collins	Parks, Fish & Wildlife
D. A. Scott	Forests
W. L. Edwards	Lands, Eng Services, Mineral Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont N4K 3E4 — Phone (519) 376-3860

R. W. Tippett	District Manager
M. Gobeil	Administration
S. A. Munroe	Fish & Wildlife
W. J. Lambie	Forests
R. J. Manley	Lands, Min Resources
P. H. Baxter	Parks
E. G. Walker	Fire, Eng Services

WINGHAM DISTRICT

R.R. 5, Wingham Ont N0G 2W0 — Phone (519) 357-3131

J. L. Hamill	District Manager
M. V. J. Sollars	Administration
W. A. Creighton	Parks, Fish, Wildlife
H. R. Lancaster	Forests
(vacant)	Lands, Field Services
(vacant)	Mineral Resources

AYLMER DISTRICT

353 Talbot Street West, Aylmer Ont N5H 2S8 — Phone (519) 773-9241

M. G. Lewis	District Manager
D. L. Clarke	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward	Parks, Lands Services
(vacant)	Mineral Resources